



Ms. Poonam Acharya
Hazardous Substances Engineer
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, California 91311

ARCADIS
801 North Brand Boulevard
Suite 1120
Glendale
California 91203
Tel 818.502.9470
Fax 818.502.9476
www.arcadis-us.com

Subject:
Request of Change in Groundwater Sampling Methodology
Brenntag South Gate Site
4545 Ardine Street, South Gate, California
(Site Code: 301287)

ENVIRONMENT

Dear Ms. Acharya:

Date:
September 1, 2009

Attached, please find the First Semi-Annual Groundwater Monitoring and Comparative Groundwater Sampling Report, dated September 1, 2009, for the Brenntag South Gate, California facility (Site). As verbally approved by DTSC during a meeting on February 5, 2009, ARCADIS conducted a comparative groundwater monitoring study on select wells at the facility to determine if using passive groundwater monitoring methods was suitable for this Site. The attached report provides a detailed evaluation of the comparative study results. Based on these results, ARCADIS, on behalf of Brenntag, is requesting DTSC approval to use passive sampling methods during all future groundwater monitoring events at the Site. ARCADIS would like to begin using this sampling method during the second 2009 semi-annual event.

Contact:
Greg Fiol
Phone:
818.502.9470 ext. 13
Email:
greg.fiol@arcadis-us.com
Our ref:
CA00677.0008.00001

If you have any questions or comments, please contact either of the undersigned at (714) 278-0992. Thank you for your consideration concerning this request.

Sincerely,

ARCADIS

Greg Fiol
Senior Project Manager

Copies:
Peter Ramaley – Brenntag, Inc.
Tom Bajema – Brenntag, Inc.
Project File

Attachment:
First Semi-Annual Groundwater Monitoring and Comparative Groundwater Sampling Report

Imagine the result

G:\APROJECT\BRENNTAG-SOCO WEST-BRILLIANT\CA00677 - BRENNTAG SGATE (PROJ
LANCER)\CA00677.08REPORTS\1ST SEMIANNUAL 2009\BRENNTAG SOUTH GATE - REQUEST TO SWICH GW SAMPLING
METHODOLOGY LETTER.DOC

ARCADIS

Attachments

Ms. Poonam Acharya
California Environmental Protection Agency
Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, CA 91311

ARCADIS
801 North Brand Boulevard
Suite 1120
Glendale
California 91203
Tel 818.502.9470
Fax 818.502.9476
www.arcadis-us.com

ENVIRONMENTAL

Subject:
First Semi-Annual 2009 Groundwater Monitoring and Comparative Groundwater Sampling Report
Brenntag – South Gate (Former L.A. Chemical)
4545 Ardine Street
South Gate, California

Date:
September 1, 2009

Dear Ms. Acharya:

ARCADIS is pleased to submit this progress report on behalf of Brenntag Pacific, Inc., (Brenntag) presenting the results of groundwater monitoring performed during the first semi-annual 2009 monitoring event at the Brenntag South Gate site (Site – Figure 1). The monitoring included the gauging for depth to water and sampling of 15 groundwater monitoring wells at the Site. A description of groundwater monitoring activities and results is presented in the following sections. Monitoring well locations are shown on Figure 2.

This report also contains a summary of a comparative study between groundwater samples collected using low-flow sampling methodology, the current Site sampling method, and groundwater samples collected using no-purge methods via HydraSleeve™ samplers. The purpose of the comparative analysis was to evaluate the viability of using no-purge HydraSleeve™ groundwater sampling as an alternative to the low-flow groundwater sampling methods currently in use at the site.

1 Groundwater Monitoring

From June 15 through June 17, 2009, ARCADIS personnel gauged and sampled wells MW-1, MW-2, MW-3, MW-4, MW-5S, MW-5D, MW-6S, MW-6D, MW-7S, MW-7D, and MW-8 through MW-12.

Contact:
Greg Fiol

Extension:
13

Email
greg.fiol@arcadis-us.com

Our Ref:
CA000677.0008.00001

1.1 Groundwater Level Measurements

During the groundwater monitoring event, all fifteen on-site and off-site wells were gauged using a water level meter. The water level meter was decontaminated between wells with a non-phosphate detergent and purified water wash and two purified water rinses. Results of all gauging activities performed during the reporting period are summarized in Table 1. Field gauging forms are included as Appendix A.

1.2 Groundwater Sampling

From June 15 through June 17, 2009, ARCADIS personnel sampled wells MW-1, MW-2, MW-3, MW-4, MW-5S, MW-5D, MW-6S, MW-6D, MW-7S, MW-7D, and MW-8 through MW-12 using low flow sampling methodology. A 2-inch diameter Grundfos submersible pump was placed in the well to be sampled, with the pump intake located at the midpoint of the screened interval, and operated at low flow rates (not exceeding 250 milliliters per minute). Groundwater was purged until field measurements of pH, temperature and specific conductance and drawdown stabilized to within specified ranges as stated in the Department of Toxic Substances Control (DTSC) approved 2007 Sampling and Analysis Plan (SAP).¹ Prior to the initiation of low-flow groundwater sampling at the Site, no purge groundwater samples were collected on June 15, 2009, from wells MW-1, MW-5D, MW-6S, MW-6D, MW-7D, and MW-12 using HydraSleeve™ samplers following usage approval by DTSC. Analytical results from the current sampling event are discussed in Section 2.2.

Upon stabilization, water samples were collected in laboratory supplied containers. The samples were labeled, recorded on a chain of custody document, and placed in an ice-filled cooler for preservation pending delivery to Calscience Environmental Laboratories, Inc. (Calscience), located in Garden Grove, California, a State-certified analytical laboratory. The pump and sampling equipment were washed in a non-phosphate detergent and triple rinsed prior to sampling and between wells.

Groundwater samples were placed in coolers with ice and submitted to Calscience. Trip blanks were provided by Calscience and placed inside the coolers containing groundwater samples to be analyzed for volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B. The primary, duplicate, and equipment blank water samples were analyzed for VOCs using EPA Method 8260B, Title 22 California Assessment Manual (CAM) Metals using EPA Methods 6010/7000, total petroleum hydrocarbon (TPH) chain analysis using EPA Method 8015B (M), and 1,4-dioxane by EPA Method 8270C (M). Laboratory analytical results are summarized in Tables 2 and 3. Copies of the laboratory reports and

¹ ARCADIS, *Sampling and Analysis Plan: Brenntag Southgate Site*. March 2007.

chain-of-custody documents are attached as Appendix B. Equipment blanks were collected on each day of sampling and laboratory prepared and supplied trip blanks were submitted in each cooler containing groundwater samples to be analyzed for VOCs (total of three each). In addition, duplicate groundwater samples were collected from both MW-2 and MW-6S. The duplicate samples were analyzed to evaluate the precision of laboratory analytical procedures and were collected in a separate set of sample containers immediately following the collection of the primary sample. The primary and duplicate samples were analyzed for the same parameters and the duplicate sample results from MW-1 and MW-6S were consistent with their primary sample results. The collection of field and quality control samples was performed in accordance with the SAP.

Non-hazardous purge water from the sampling event was containerized in Department of Transportation (DOT)-approved 55-gallon steel drums, appropriately labeled, and properly managed for disposal at an offsite facility. Purge water from this sampling event was disposed of on January 20, 2009; the executed waste manifest is included in Appendix C.

2 Results

2.1 Groundwater Levels

During the reporting period, groundwater levels in all the wells have decreased by an average of 0.70 feet. Well MW-11 displayed a static groundwater level decrease of 1.84 feet from the previous groundwater monitoring event. For a second consecutive reporting period, groundwater levels at MW-11 have decreased by an uncharacteristic amount relative to the average decrease of approximately 0.51 feet observed in the remaining monitoring well network both on-site and off-site (Table 1). Figure 3 presents hydrographs for site monitoring wells from December 2005 through June 2009. With the exception of MW-11, water levels are changing uniformly in all of the site wells, however, it should be noted that the current static groundwater level identified in well MW-11 is now within the range of static groundwater levels seen at the site.

Data from wells MW-1, MW-5S, MW-6S, MW-7S, and MW-12 screened between approximately 50 to 75 feet bgs, were used to evaluate groundwater gradient and flow direction in the shallow saturated zone. Elevations of groundwater in the shallow wells indicate a hydraulic gradient of approximately 0.001 feet per foot to the southwest. Shallow groundwater elevation contours and flow direction are depicted in the attached Figure 4.

Data from wells MW-5D, MW-6D, MW-7D, and MW-8 screened between approximately 80 to 96 feet bgs, were used to evaluate groundwater gradient and

flow direction in the Gaspur aquifer. Data from the deeper wells indicate an average gradient of approximately 0.002 feet per foot to the southwest. The groundwater elevation contours and flow direction map for the Gaspur Aquifer are presented in the attached Figure 5.

2.2 Laboratory Analytical Results

2.2.1 Low-Flow Methodology Analytical Results

VOCs were detected in each of the 15 monitoring wells sampled during this monitoring event. Well MW-7D was observed to contain the highest concentrations of five VOCs: 1,1-dichloroethane (18 µg/L), 1,2-dichloroethane (69 µg/L), *trans*-1,2-dichloroethene (6.7 mg/L), 1,2-dichloropropane (15 µg/L), and trichloroethene (730 µg/L). *Cis*-1,2-dichloroethene was detected in all 15 samples with the highest concentration of 620 µg/L detected in well MW-3. Trichloroethene was detected in 12 of the 15 samples at concentrations ranging from 5.6 µg/L (duplicate sample from MW-2) to 730 µg/L (MW-7D). Tetrachloroethene was detected in 10 of the 15 samples at concentrations ranging from 1.5 µg/L (duplicate sample collected at MW-2) to 37 µg/L (MW-7S). Vinyl chloride was detected in 9 of the 15 samples at concentrations ranging from 0.68 µg/L (MW-5D) to 53 µg/L (MW-2). Figure 6 depicts the distribution of VOCs in groundwater for the current groundwater monitoring event. Total VOC concentrations are generally consistent with the previous sampling event.

1,4-dioxane was detected in 12 of the 15 monitoring wells sampled at concentrations ranging from 2.3 mg/L (at well MW-9) to 97 µg/L (MW-12).

Metals were detected in each of the 15 monitoring wells sampled. Eight metals were detected in well MW-11 at concentrations exceeding their respective Maximum Contaminant Levels (MCLs) for drinking water, as published in Title 22 of the California Code of Regulations. Arsenic was detected at concentrations exceeding its MCL of 0.05 mg/L in 7 of the sampled wells at concentrations ranging from 0.0519 mg/L (at MW-3) to 2.47 mg/L (MW-6S). Nickel was detected above its MCL of 0.1 mg/L in seven of the sampled wells at concentrations ranging from 0.114 mg/L (MW-2) to 0.709 mg/L (MW-6S). Lead was detected above its MCL of 0.015 mg/L in six of the sampled wells at concentrations ranging from 0.0152 mg/L (MW-2) to 0.413 mg/L (MW-11). Figure 7 depicts the distribution of metals in groundwater for the current groundwater monitoring event. Generally, metals detected at concentrations greater than their respective MCLs are only located in the central portion of the site, and there were no detections of metals above MCLs in the deeper screened wells (MW-5D, MW-6D, and MW-7D) at the Site.

Petroleum hydrocarbons were detected in 5 of the 15 wells sampled. Specific petroleum hydrocarbon chains detected in the submitted groundwater samples ranged from C7 to C44, with the highest concentrations in the C11-C12 range, and the C17 - C18 range in groundwater collected from well MW-4. Figure 8 depicts the distribution of TPH in groundwater for the current groundwater monitoring event. TPH concentrations were generally consistent with the results from previous sampling events.

Appendix D includes a summary of groundwater analytical results collected at the site to date.

2.2.2 Comparative Study Results and Recommendations

Six Site wells (MW-1, MW-5D, MW-6S, MW-6D, MW-7D, and MW-12) were initially sampled with a no-purge technique utilizing HydraSleeve™ sampling devices. Following the initial groundwater sample collection, the wells were allowed to equilibrate a minimum of 24-hours before being sampled a second time using the low-flow purge and sample method described in the SAP. Only the low-flow sampling groundwater analytical results were used in the preparation of the first semi-annual 2009 groundwater monitoring report.

Groundwater analytical results for the two sample collection methods used during this monitoring event are summarized in Tables E1 and E2. Additionally, X-Y scatter plots with regression calculations of laboratory analytical results (including VOCs, 1,4-dioxane, TPH-cc, and CAM metals) and field-collected water quality data (turbidity) of groundwater samples collected using low-flow purge and sample methodology versus no-purge groundwater samples collected using HydraSleeve™ samplers are included as Figures E1 through E5. A complete discussion of the two resulting data sets from the differing sampling techniques is presented in Appendix E.

A comparison of groundwater analytical results collected from the six wells in which both sampling methods were utilized, reveals that the analytical results are very similar, and are typically more conservative using HydraSleeve™ samplers. The results presented in Appendix E supports the use of no-purge groundwater sampling utilizing HydraSleeve™ samplers at the Site for VOC, 1,4-dioxane, TPH-cc, and CAM metals analysis, and ARCADIS, on behalf of Brenntag, formally requests DTSC approval to utilize HydraSleeve™ samplers during future site groundwater monitoring events.

3 Planned Activities Next Quarter

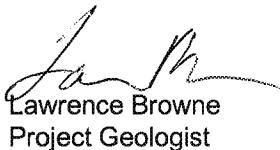
Groundwater will continue to be monitored and sampled on a semi-annual basis.

4 Closing

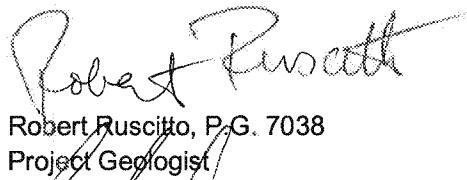
If you have any questions or comments regarding this report, please contact Greg Fiol at (818) 502-9470, extension 13.

Sincerely,

ARCADIS



Lawrence Browne
Project Geologist



Robert Ruscitto, P.G. 7038
Project Geologist



Greg Fiol
Senior Project Manager



Copies:
Peter Ramaley – Brenntag, Inc.
Tom Bajema – Brenntag, Inc.
Project File

Attachments:

- Table 1 Summary of Groundwater Gauging Data
- Table 2 Summary of First Semi-Annual 2009 Groundwater Analytical Results (VOCs and Field Parameters)
- Table 3 Summary of First Semi-Annual 2009 Groundwater Analytical Results (Total Metals and Petroleum Hydrocarbons)
- Figure 1 Site Location Map
- Figure 2 Site Plan Showing Monitoring Well Locations
- Figure 3 Monitoring Well Hydrographs – December 2005 through June 2009
- Figure 4 Groundwater Contour Map – Shallow Wells, June 2009
- Figure 5 Groundwater Contour Map – Deep Wells, June 2009
- Figure 6 Distribution of VOCs in Groundwater, June 2009
- Figure 7 Distribution of Total Metals in Groundwater, June 2009
- Figure 8 Distribution of Petroleum Hydrocarbons in Groundwater, June 2009
- Appendix A Field Monitoring Forms
- Appendix B Laboratory Analytical Results and Chain-of-Custody Documentation
- Appendix C Disposal Documentation
- Appendix D Summary of Groundwater Analytical Results
- Appendix E Comparative Analysis between HydraSleeve™ and Low-Flow Groundwater Analytical Results

ARCADIS

Tables

Table 1. Summary of Groundwater Gauging Data
Brenntag - South Gate, California

Well Identification	Screen Interval (feet)	Date	Top of Casing (fams)	Depth to Groundwater (feet)	Groundwater Elevation (fams)
MW-1	65 to 75	12/18/05	119.12	59.80	59.32
		5/22/06	119.12	55.88	63.24
		12/6/06	119.12	56.49	62.63
		6/2/07	121.21	56.18	65.03
		11/27/07	121.21	56.71	64.50
		7/14/08	121.21	57.30	63.91
		12/1/08	121.21	57.88	63.33
		6/15/09	121.21	58.45	62.76
MW-2	50 to 85	12/18/05	118.50	58.85	59.65
		5/22/06	118.50	55.77	62.73
		12/6/06	118.50	55.65	62.85
		6/2/07	120.65	55.40	65.25
		11/27/07	120.65	55.95	64.70
		7/14/08	120.65	56.57	64.08
		12/1/08	120.65	57.25	63.40
		6/15/09	120.65	57.72	62.93
MW-3	50 to 85	12/18/05	117.88	58.28	59.60
		5/22/06	117.88	55.02	62.86
		12/6/06	117.88	NM	NA
		6/2/07	119.97	54.60	65.37
		7/14/08	119.97	56.00	63.97
		12/1/08	119.97	56.36	63.61
		6/15/09	119.97	57.05	62.92
MW-4	50 to 85	12/18/05	119.21	NM	NA
		5/22/06	119.21	55.93	63.28
		12/6/06	119.21	55.70	63.51
		6/2/07	121.33	55.07	66.26
		11/27/07	121.33	55.75	65.58
		7/14/08	121.33	56.72	64.61
		12/1/08	121.33	57.90	63.43
MW-5S	53 to 73	12/18/05	118.54	NM	NA
		5/22/06	118.54	55.19	63.35
		12/6/06	118.54	54.93	63.61
		6/2/07	120.26	54.85	65.41
		11/27/07	120.26	55.37	64.89
		7/14/08	120.26	56.00	64.26
		12/1/08	120.26	56.65	63.61
		6/15/09	120.26	57.19	63.07
MW-5D	83 to 93	12/18/05	118.63	NM	NA
		5/22/06	118.63	55.51	63.12
		12/6/06	118.63	55.50	63.13
		6/2/07	120.26	54.90	65.36
		11/27/07	120.26	55.43	64.83
		7/14/08	120.26	56.04	64.22
		12/1/08	120.26	56.60	63.66
		6/15/09	120.26	57.20	63.06

Table 1. Summary of Groundwater Gauging Data
Brenntag - South Gate, California

Well Identification	Screen Interval (feet)	Date	Top of Casing (famsl)	Depth to Groundwater (feet)	Groundwater Elevation (famsl)
MW-6S	51 to 71	12/18/05	119.04	59.40	59.64
		5/22/06	119.04	55.86	63.18
		12/6/06	119.04	56.24	62.80
		6/2/07	121.17	56.17	65.00
		11/27/07	121.17	56.47	64.70
		7/14/08	121.17	57.10	64.07
		12/1/08	121.17	57.80	63.37
		6/15/09	121.17	58.30	62.87
MW-6D	81 to 91	12/18/05	119.09	59.70	59.39
		5/22/06	119.09	56.45	62.64
		12/6/06	119.09	56.43	62.66
		6/2/07	121.21	56.18	65.03
		11/27/07	121.21	56.60	64.61
		7/14/08	121.21	57.30	63.91
		12/1/08	121.21	57.92	63.29
		6/15/09	121.21	58.45	62.76
MW-7S	53 to 73	12/18/05	119.65	60.08	59.57
		5/22/06	119.65	57.04	62.61
		12/6/06	119.65	57.27	62.38
		6/2/07	122.21	57.41	64.80
		11/27/07	122.21	58.00	64.21
		7/14/08	122.21	58.51	63.70
		12/1/08	122.21	59.15	63.06
		6/15/09	122.21	59.65	62.56
MW-7D	86 to 96	12/18/05	119.62	60.66	58.96
		5/22/06	119.62	57.21	62.41
		12/6/06	119.62	57.50	62.12
		6/2/07	122.24	57.72	64.52
		11/27/07	122.24	58.25	63.99
		7/14/08	122.24	58.84	63.40
		12/1/08	122.24	59.47	62.77
		6/15/09	122.24	59.96	62.28
MW-8	86 to 96	12/18/05	119.09	59.85	59.24
		5/22/06	119.09	55.65	63.44
		12/6/06	119.09	56.60	62.49
		6/2/07	121.20	56.31	64.89
		11/27/07	121.20	56.80	64.40
		7/14/08	121.20	57.38	63.82
		12/1/08	121.20	58.10	63.10
		6/15/09	121.20	58.56	62.64
MW-9	52 to 97	12/18/05	119.35	59.90	59.45
		5/22/06	119.35	56.57	62.78
		12/6/06	119.35	56.86	62.49
		6/2/07	121.49	56.55	64.94
		11/27/07	121.49	57.00	64.49
		7/14/08	121.49	57.52	63.97
		12/1/08	121.49	58.18	63.31
		6/15/09	121.49	58.76	62.73
MW-10	52 to 97	12/18/05	119.93	60.66	59.27
		5/22/06	119.93	57.38	62.55
		12/6/06	119.93	57.39	62.54
		6/2/07	121.80	57.09	64.71
		11/27/07	121.80	57.39	64.41
		7/14/08	121.80	57.90	63.90
		12/1/08	121.80	58.40	63.40
		6/15/09	121.80	58.80	63.00

Table 1. Summary of Groundwater Gauging Data
Brenntag - South Gate, California

Well Identification	Screen Interval (feet)	Date	Top of Casing (famsl)	Depth to Groundwater (feet)	Groundwater Elevation (famsl)
MW-11	50 to 95	12/18/05	120.43	58.75	61.68
		5/22/06	120.43	51.29	69.14
		12/6/06	120.43	51.33	69.10
		6/2/07	122.37	53.38	68.99
		11/27/07	122.37	51.00	71.37
		7/14/08	122.37	54.12	68.25
		12/1/08	122.37	58.26	64.11
		6/15/09	122.37	60.10	62.27
MW-12	40 to 75	12/18/05	NS	61.30	NA
		5/22/06	NS	57.92	NA
		12/6/06	NS	58.13	NA
		6/2/07	122.53	57.85	64.68
		11/27/07	122.53	58.21	64.32
		7/14/08	122.53	58.65	63.88
		12/1/08	122.53	59.32	63.21
		6/15/09	122.53	59.75	62.78

famsl feet above mean sea level

NM Not measured

NS Not surveyed

NA Not applicable

Table 2. Summary of First Semi-Annual 2009 Groundwater Analytical Results (VOCs and Field Parameters)
Brenntag - South Gate, California

Well ID	MW-1	MW-2	MW-2 Dup	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6S Dup	MW-6D	MW-7S	MW-7D	MW-8	MW-9	MW-10	MW-11	MW-12	
Date Sampled	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/15/2009	6/16/2009	6/16/2009	6/17/2009	6/17/2009	6/15/2009	6/17/2009	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/17/2009	6/16/2009	
VOCs by EPA Method 8260 (µg/L)																		
Acetone	<100	<50	<50	<50	290	<50	<50	<50	<50	2.1	<0.50	1.0	0.72	<0.50	<0.50	0.50	<0.50	<0.50
Benzene	<1.0	<0.50	<0.50	0.62	<0.50	<0.50	1.1	1.8	<0.50	2.1	<0.50	1.0	0.72	<0.50	<0.50	0.50	<0.50	<0.50
Bromobenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromo(chloromethane)	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
n-Butylbenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Disulfide	<20	<10	<10	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	4.8	<1.0	<1.0
Chloroethane	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	4.1	<1.0	27	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlormethane	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dib ḯ bromochloromethane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromomethane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	5.6	2.2	1.9	<1.0	1.0	<1.0	3.2	3.4	<1.0	29	28	<1.0	27	5.5	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	1.7	<1.0	3.0	3.3	<1.0	4.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<2.0	6.2	5.0	8.3	3.2	1.8	<1.0	1.6	1.6	<1.0	5.7	18	<1.0	16	2.9	1.1	5.7	<1.0
1,2-Dichloroethane	1.0	10	9.5	6.6	2.7	<0.50	0.65	1.1	1.1	<0.50	5.2	69	<0.50	<0.50	<0.50	<0.50	<0.50	4.0
1,1-Dichloroethene	<2.0	1.2	<1.0	5.7	1.0	1.5	<1.0	3.4	3.4	<1.0	6.7	10	<1.0	1.1	3.6	1.0	13	<1.0
c-1,2-Dichloroethene	250	170	160	620	150	19	89	500	500	13	17	180	4.4	14	73	3.5	7.0	<1.0
t-1,2-Dichloroethene	4.2	4.6	3.9	6.4	3.0	1.1	1.5	5.7	5.7	<1.0	1.0	6.7	<1.0	3.9	<1.0	<1.0	<	

Table 2. Summary of First Semi-Annual 2009 Groundwater Analytical Results (VOCs and Field Parameters)
Brenntag - South Gate, California

Well ID	MW-1	MW-2	MW-2 Dup	MW-3	MW-4	MW-5S	MW-5D	MW-6S	MW-6S Dup	MW-6D	MW-7S	MW-7D	MW-8	MW-9	MW-10	MW-11	MW-12	
	Date Sampled	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/16/2009	6/16/2009	6/17/2009	6/17/2009	6/17/2009	6/15/2009	6/17/2009	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/17/2009	
n-Propylbenzene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Styrene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,1,2-Tetrachloroethane		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethylene (PCE)		<2.0	1.7	1.5	5.8	2.2	2.4	<1.0	29	29	<1.0	37	19	5.5	4.1	<1.0	2.1	<1.0
Toluene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,3-Trichlorobenzene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,4-Trichlorobenzene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,1-Trichloroethane		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane		<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
1,1,2-Trichloroethane		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	
Trichloroethylene (TCE)		11	7.0	5.6	63	37	140	<1.0	220	220	<1.0	240	670	7.2	14	21	48	<1.0
Trichlorofluoromethane		<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
1,2,3-Trichloropropane		<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,3,5-Trimethylbenzene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vinyl Acetate		<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Vinyl Chloride		<1.0	53	46	<0.50	1.4	0.84	0.68	<0.50	<0.50	0.84	<0.50	0.81	0.84	<0.50	0.71	<0.50	0.92
p/m-Xylene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
o-Xylene		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methyl-t-Butyl Ether (MTBE)		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tert-Butyl Alcohol (TBA)		NA																
Diisopropyl Ether (DIPE)		NA																
Ethyl-t-Butyl Ether (ETBE)		NA																
Tert-Amyl-Methyl Ether (TAME)		NA																
Ethanol		NA																
Other Parameters																		
1,4-Dioxane by EPA Method 8270C (µg/L)	3.4	25	25	16	19	<2.0	21	4.2	4.4	<2.0	8.5	28	<2.0	2.3	13	3.4	97	
pH (Standard units)	7.29	7.29	--	7.38	10.57	7.33	7.62	7.13	--	7.30	7.41	7.23	7.32	7.43	7.44	7.40	7.35	
Specific Conductance (millisiemens per centimeter)	6.53	3.10	--	4.33	7.62	1.82	0.948	7.04	--	1.09	5.02	5.38	1.05	2.65	3.01	7.80	3.19	
Oxidation Reduction Potential (ORP) (millivolts)	-144	-150	--	-103	-311	88	-190	53	--	-94	106	-42	-112	-120	-48	102	-89	
Dissolved Oxygen (DO) (mg/L)	5.31	4.97	--	6.54	6.20	6.20	5.92	5.19	--	6.08	5.77	5.90	5.22	5.89	6.97	6.69	5.27	
Turbidity (ntu)	20.3	1.9	--	9.8	10.4	2.4	0.66	12.3	--	1.8	2.1	1.99	37.8	0.0	2.4	13	3.3	
Temperature (Degrees Celsius)	27.81	28.70	--	23.24	22.51	23.37	24.47	28.60	--	25.81	23.89	26.22	28.47	23.15	25.69	22.72	25.52	

Notes:

Groundwater samples collected using low-flow sampling methodology

VOCs Volatile Organic Compounds

mg/L Milligrams per liter

µg/L Micrograms per liter

Dup Duplicate Sample

<1.0 Not detected above reporting limit indicated

NA Not analyzed

ntu Nephelometric turbidity unit

Table 3. Summary of First Semi-Annual 2009 Groundwater Analytical Results (Total Metals and Petroleum Hydrocarbons)

Brenntag - South Gate, California

Well ID	MW-1	MW-2	MW-2 (DUP1)	MW-3	MW-4	MW-5S	MW-5D	MW-6S (DUP2)	MW-6D	MW-7S	MW-7D	MW-8	MW-9	MW-10	MW-11	MW-12	
	Date Sampled	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/15/2009	6/16/2009	6/16/2009	6/17/2009	6/16/2009	6/17/2009	6/16/2009	6/16/2009	6/15/2009	6/17/2009	6/16/2009	
Metals by EPA 6010/7000 (mg/L)																	
Antimony	<0.0150	<0.0150	<0.0150	<0.0150	0.0234	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	
Arsenic	1.29	0.0593	0.0617	0.0519	0.0971	<0.0100	0.0119	2.47	2.40	0.0110	<0.0100	0.0341	0.139	<0.0100	<0.0100	0.0725	<0.0100
Barium	0.426	0.0766	0.0773	0.170	0.0911	0.0638	0.0755	0.152	0.134	0.0667	0.0168	0.0220	0.525	0.0386	0.0342	1.10	0.117
Beryllium	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00852	0.00909	<0.00500	0.024	<0.00500	<0.00500	<0.00500	0.00743	0.285	<0.00500
Chromium	0.0210	<0.00500	<0.00500	0.0103	0.0133	<0.00500	0.00736	0.0512	0.0532	0.00662	<0.00500	<0.00500	0.0168	<0.00500	<0.00500	0.107	0.00615
Cobalt	0.00555	<0.00500	<0.00500	0.0186	<0.00500	<0.00500	0.0324	0.0345	<0.00500	0.0246	0.00591	<0.00500	<0.00500	<0.00500	0.0655	<0.00500	
Copper	0.0974	0.0496	0.0549	0.114	0.319	<0.00500	<0.00500	0.351	0.374	0.00603	0.503	0.0369	0.125	0.0221	0.00528	1.45	<0.00500
Lead	0.0299	0.0152	0.0154	0.0145	0.0589	<0.0100	<0.0100	0.0316	0.0299	<0.0100	<0.0100	<0.0100	0.0666	<0.0100	<0.0100	0.413	<0.0100
Mercury	<0.000500	<0.000500	<0.000500	0.000898	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	0.0351	0.0138	0.0140	0.115	0.235	0.0672	0.0526	0.0414	0.0412	0.0434	0.0488	0.0573	0.0496	0.0557	0.0896	<0.00500	0.0634
Nickel	0.265	0.114	0.114	0.507	0.292	0.0101	<0.00500	0.685	0.709	0.00725	0.448	<0.0150	0.00814	0.0505	0.0609	0.464	0.0692
Selenium	<0.0150	<0.0150	<0.0150	<0.0150	0.170	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	0.0156	<0.0150	<0.0150	<0.0150	<0.0150	0.150	<0.0150
Silver	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0145	<0.00500
Thallium	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	0.0081	<0.00500	<0.00500	0.00545	0.00841	0.00973	<0.00500	0.0251	0.0265	<0.00500	0.0141	<0.00500	0.00713	0.0150	0.00550	0.446	<0.00500
Zinc	0.578	0.0555	0.0561	0.217	2.96	<0.0100	<0.0100	0.655	0.640	0.0340	0.0178	0.0217	0.609	<0.0100	<0.0100	0.813	<0.0100
TPH C6-C44 by EPA Method 8015M (µg/L)																	
C6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C7	ND	ND	ND	ND	12	ND	ND	27	31	ND	33	100	ND	ND	ND	ND	ND
C8	ND	ND	ND	ND	ND	ND	ND	6.2	6.7	ND							
C9-C10	ND	ND	ND	ND	220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C11-C12	ND	ND	ND	ND	1,900	ND	ND	ND	14	ND							
C13-C14	ND	ND	ND	ND	750	ND	ND	41	ND								
C15-C16	ND	ND	ND	ND	350	ND	64	27	41	ND	ND	ND	1.8	ND	ND	ND	ND
C17-C18	ND	ND	ND	ND	1,600	ND	16	ND	87	ND	ND	ND	33	ND	15	ND	ND
C19-C20	ND	ND	ND	ND	100	ND	ND	190	95	ND	ND	ND	4.4	ND	ND	ND	ND
C21-C22	ND	ND	ND	ND	76	ND	ND	30	67	ND	ND	ND	50	ND	ND	ND	ND
C23-C24	ND	ND	ND	ND	32	ND	ND	21	42	ND	ND	ND	130	ND	ND	ND	ND
C25-C28	ND	ND	ND	ND	ND	ND	ND	19	26	ND	ND	ND	290	ND	ND	ND	ND
C29-C32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	910	ND	ND	ND	ND
C33-C36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	610	ND	ND	ND	ND
C37-C40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	580	ND	ND	ND	ND
C41-C44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	450	ND	ND	ND	ND
C6-C44 Total	<500	<500	<500	<500	5,100	<500	<500	<500	<500	<500	<500	<500	3,100	<500	<500	<500	<500

Notes:

Groundwater samples collected using low-flow sampling methodology

TPH Total Petroleum Hydrocarbons

mg/L Milligrams per liter

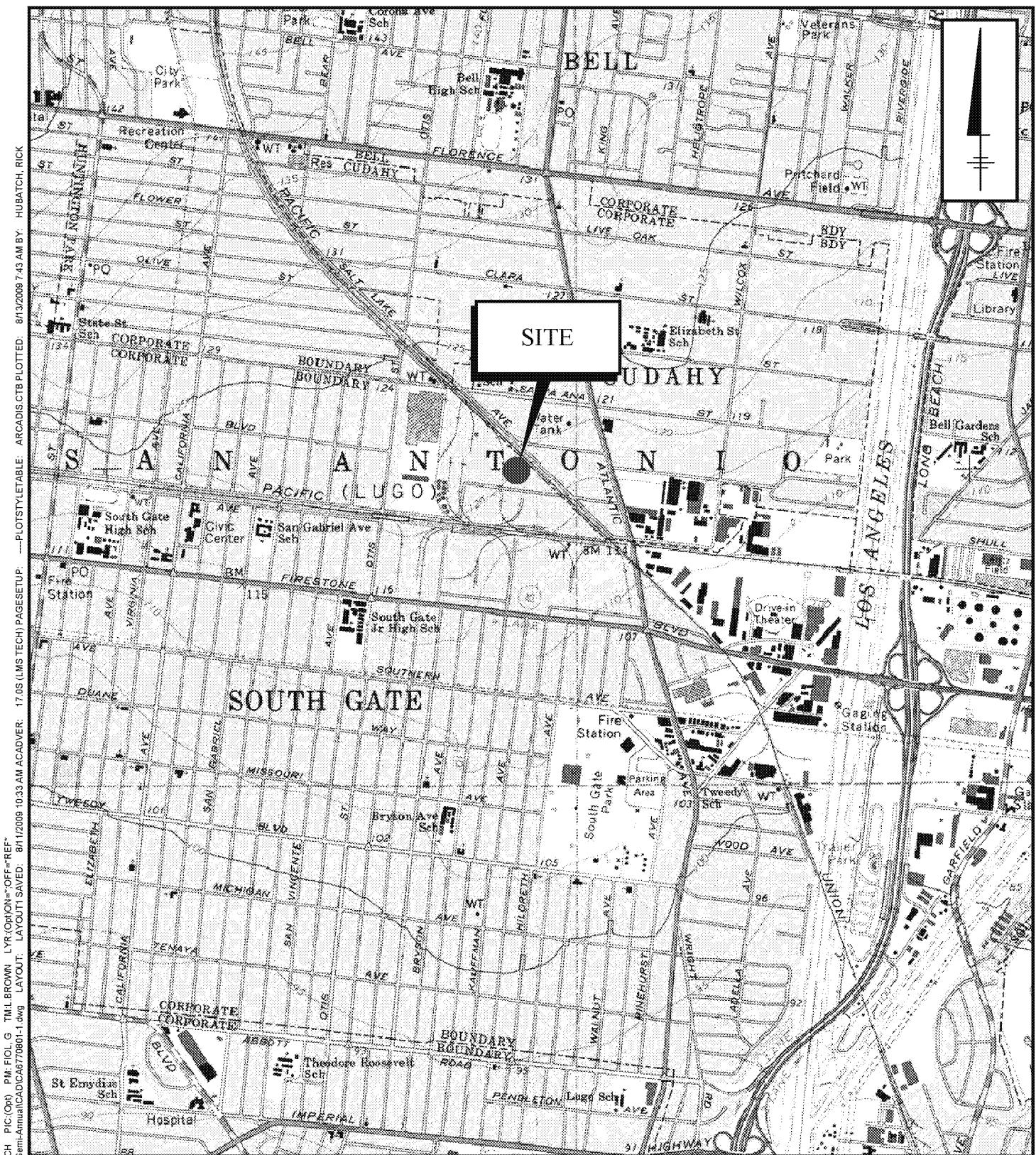
µg/L Micrograms per liter

Dup Duplicate Sample

<1.0 Not detected above reporting limit indicated

ARCADIS

Figures



CITY: FULLERTON DIVISION: ENV LDR: HUBATCH PIC: 001 PM: FICL: S TMI: BROWN LRY: (NON)-OFF-REF
 PROJECTNAME: Brenntag - South Gate
 GIVEN/CAD: unkonwn ACTA#000677006800011st Semi-Annual CAD/CAB/770801-1.dwg
 LAYOUT: LAYOUT1.SAVED: 8/1/2009 10:33 AM ACADVER: 170S (MS TECH) PAGESETUP: —PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 8/13/2008 7:43 AM BY: HUBATCH, RICK
 IMAGES: 01_sitemap.JPG

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

BRENTAG PACIFIC, INC.
 4545 ARDINE STREET, SOUTHGATE, CALIFORNIA
**FIRST SEMI-ANNUAL 2009
 GROUNDWATER MONITORING REPORT**

SITE LOCATION MAP



FIGURE
1

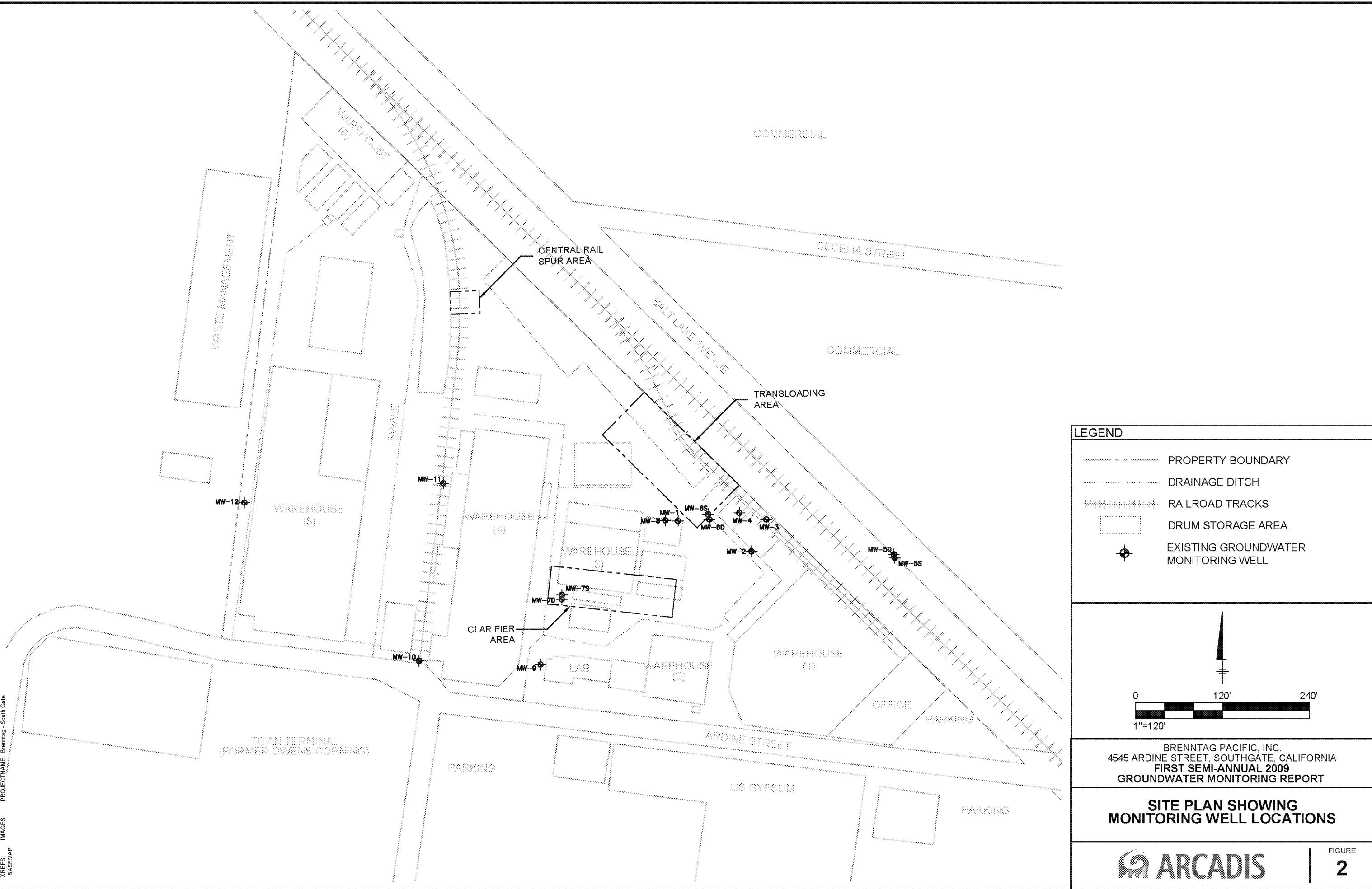
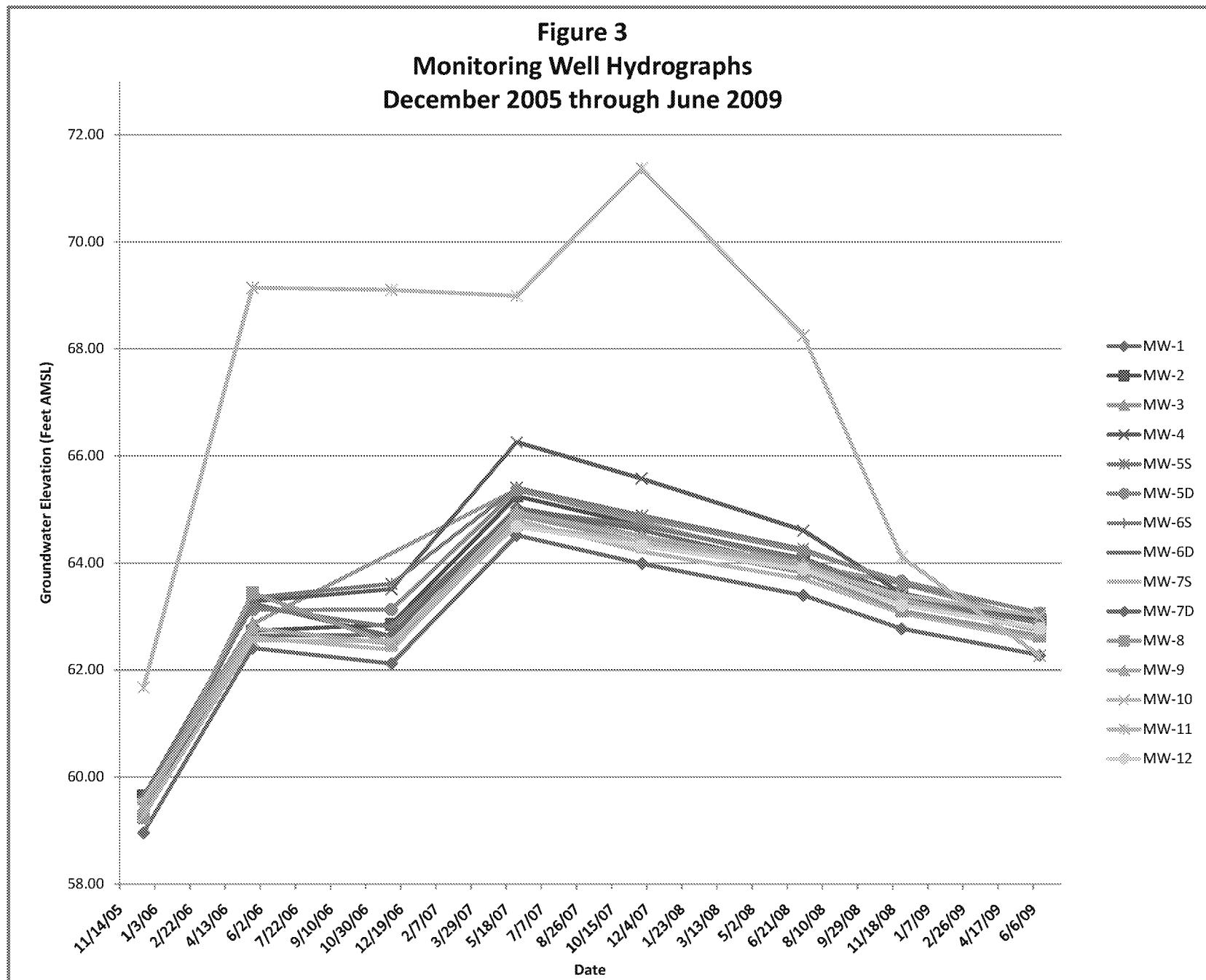
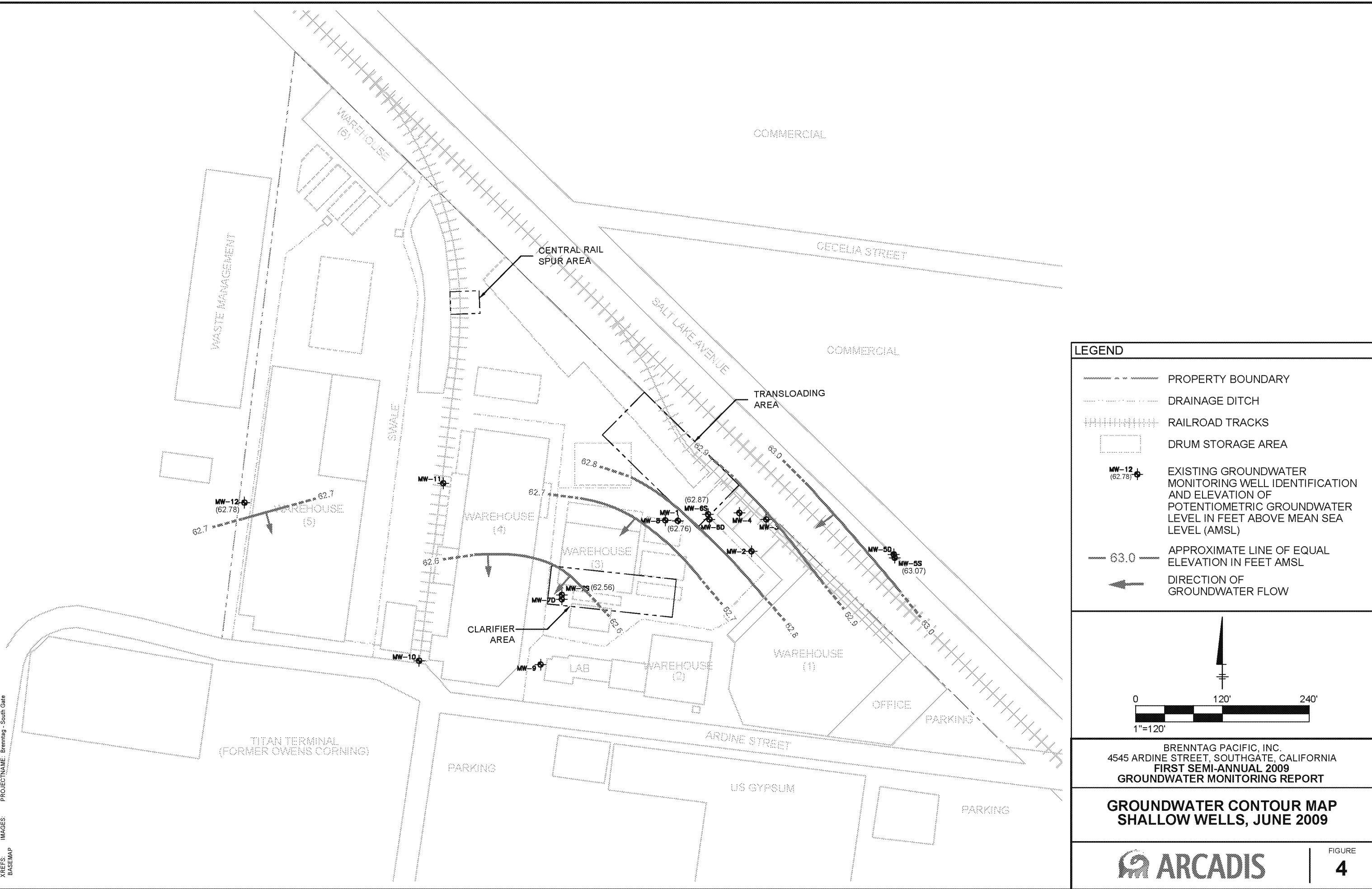
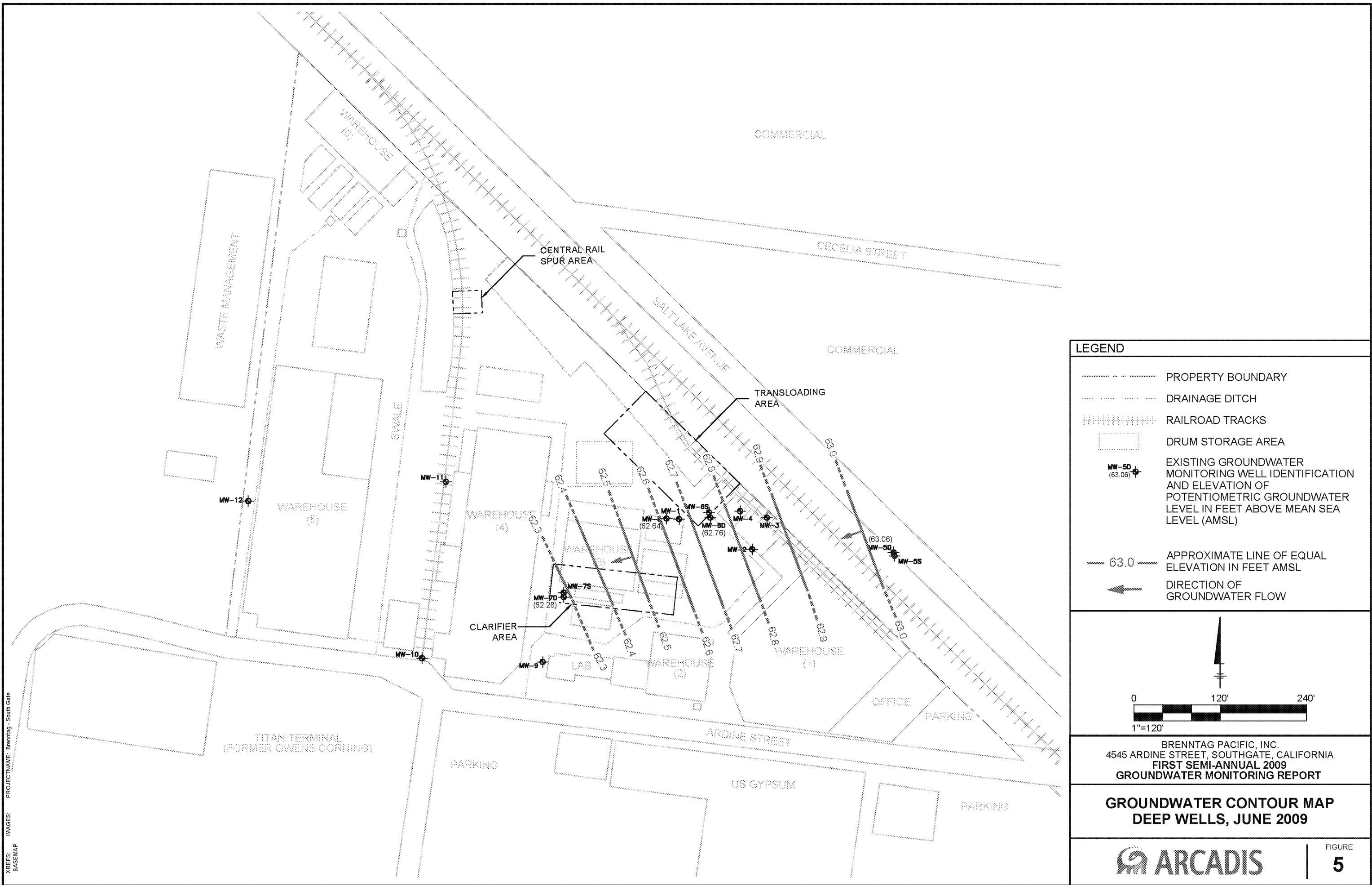
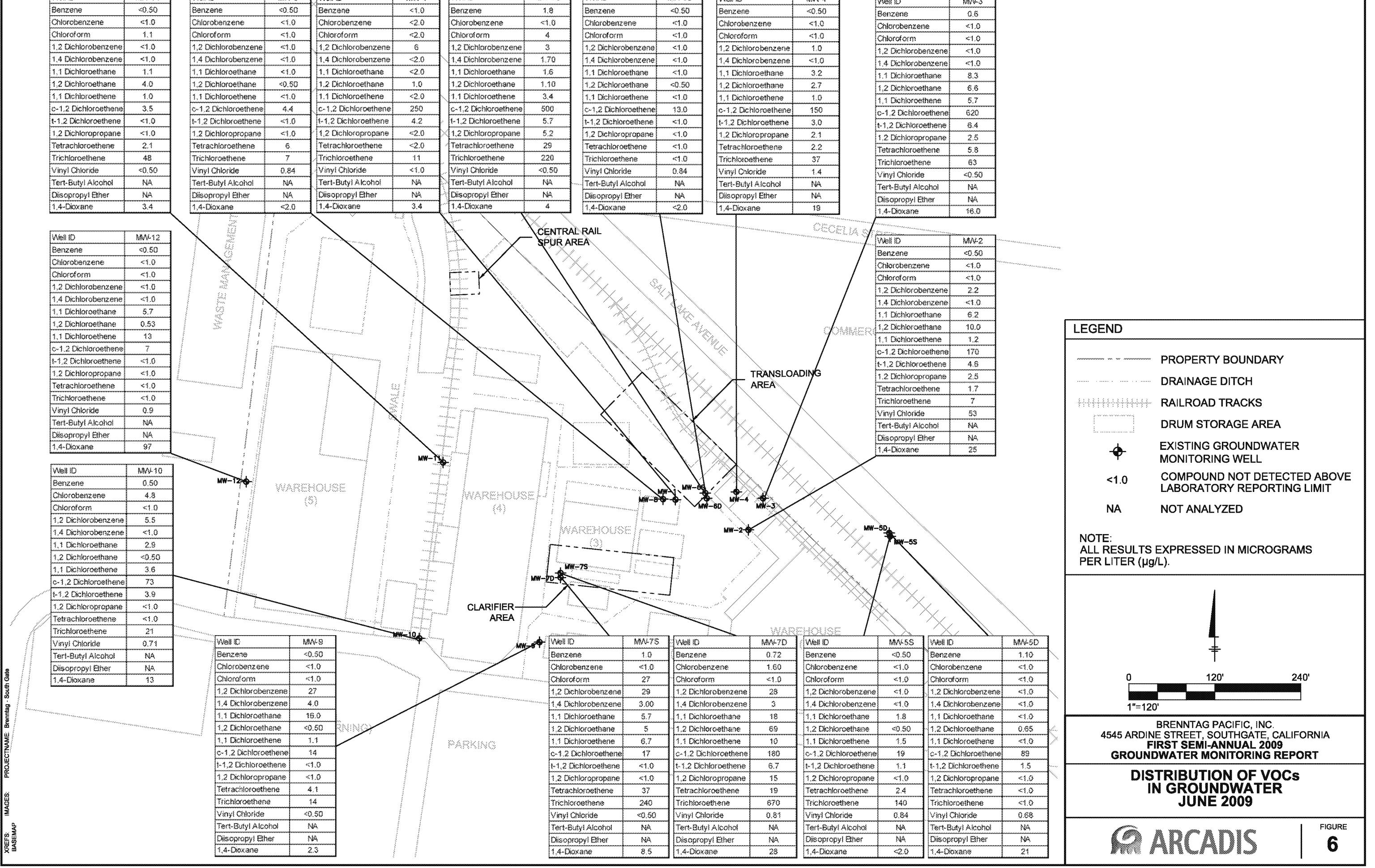


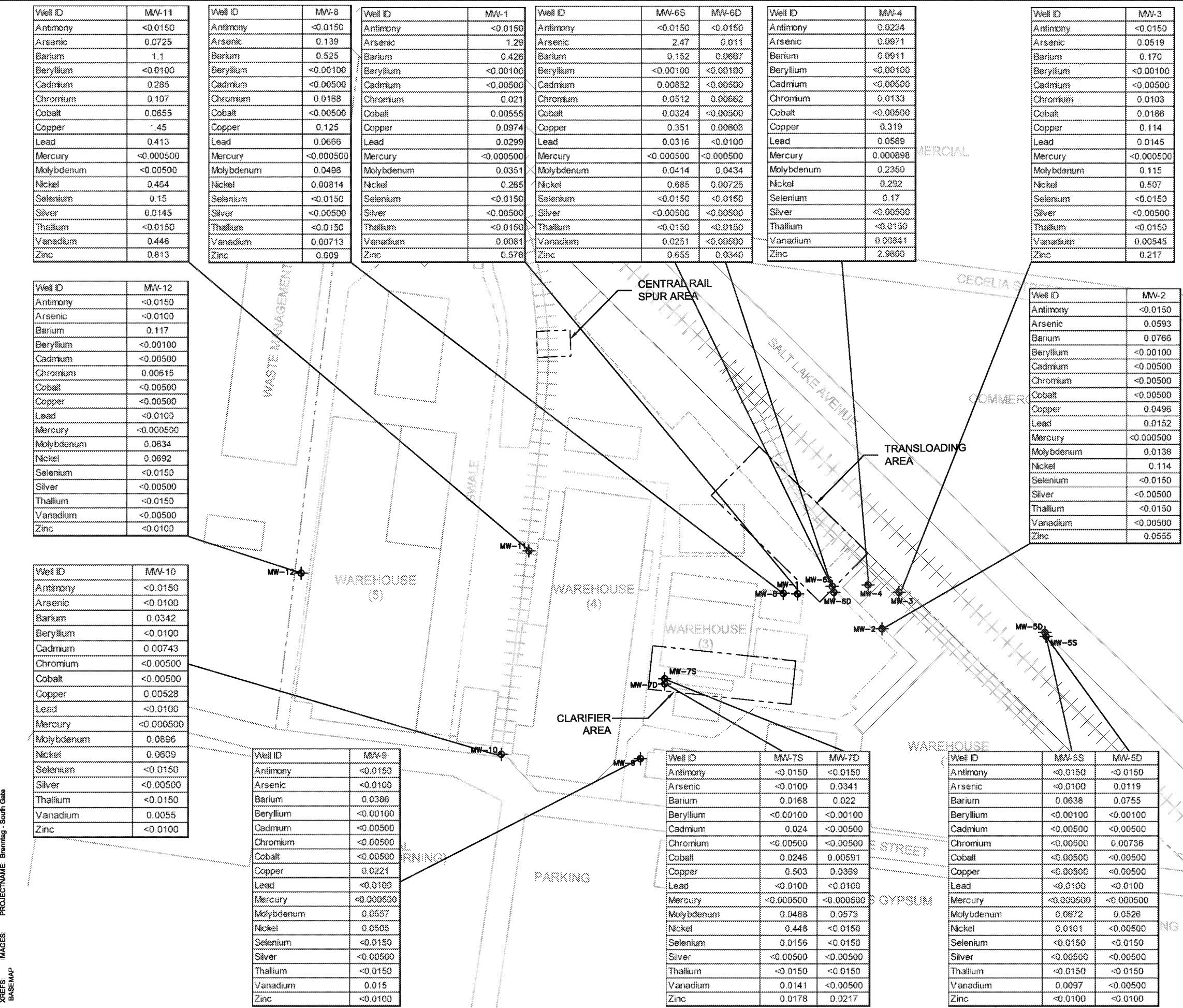
Figure 3
Monitoring Well Hydrographs
December 2005 through June 2009











LEGEND

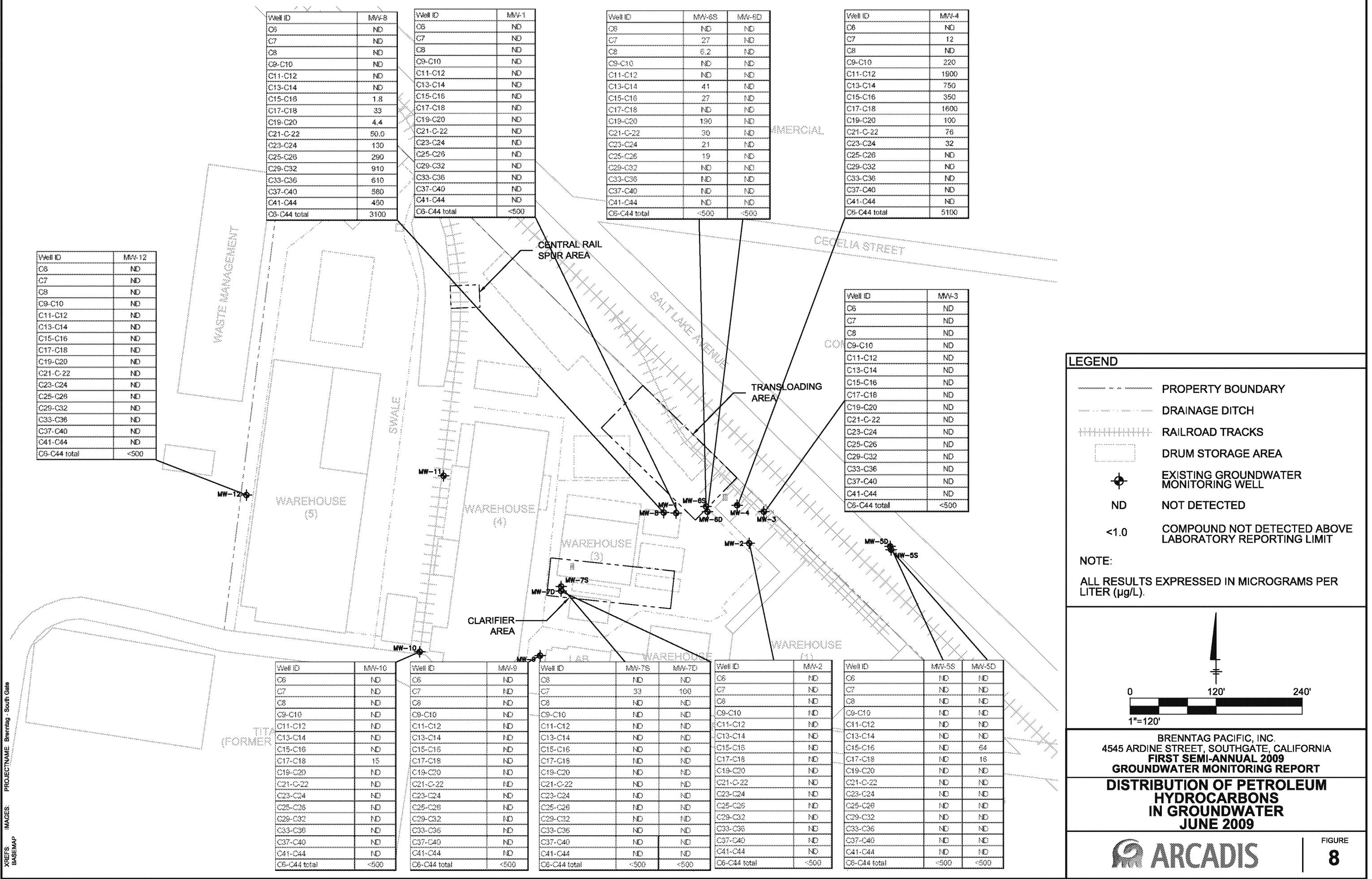
- PROPERTY BOUNDARY
- DRAINAGE DITCH
- RAILROAD TRACKS
- DRUM STORAGE AREA
- EXISTING GROUNDWATER MONITORING WELL
- ND
- <0.0150
- COMPOUND NOT DETECTED ABOVE LABORATORY REPORTING LIMIT

NOTE:
ALL RESULTS EXPRESSED IN MILLIGRAMS PER LITER (mg/L).

BRENNETAG PACIFIC, INC.
4545 ARDINE STREET, SOUTHGATE, CALIFORNIA
FIRST SEMI-ANNUAL 2009 GROUNDWATER MONITORING REPORT

DISTRIBUTION OF TOTAL METALS IN GROUNDWATER JUNE 2009

FIGURE 7



ARCADIS

Appendix A

Field Monitoring Forms

ARCADIS

Groundwater/Floating Product Gauging Log

Project Name Southgate
 Project Number _____
 Field Personnel J. ESTRADA

Date 6/15/09
 Day of Week Mon
 Page 1 of _____

ALL SPACES MUST BE FILLED IN

Well ID	Well Diameter (inches)	Surface Seal (yes/no)	Lid Secure (yes/no)	Gasket (yes/no)	Lock (yes/no)	Expanding Cap (yes/no)	Total Depth of Well (feet bgs)	Depth to Floating Product (feet bgs)	First Depth to Water (feet bgs)	Second Depth to Water (feet bgs)	Floating Product Thickness (feet)	PV-DEATH	
												Comments	PID
MW-2	4	Y	Y	N	N	Y	79.75	—	57.72	57.72	57.88	/	0.0
MW-6D	4	Y	Y	Y	Y	Y	91.10	—	58.45	58.45	57.92	/	0.0
MW-6S	4	Y	Y	Y	Y	Y	69.95	—	58.30	58.30	57.80	/	0.0
MW-3	4	N	N	Y	N	Y	79.78	—	57.05	57.05	56.36	/	0.0
MW-1	4	Y	Y	Y	Y	Y	69.15	—	58.45	58.45	57.88		0.0
MW-8	4	Y	Y	Y	Y	Y	94.63	—	58.56	58.56	58.10		0.0
MW-7S	4	Y	Y	Y	Y	Y	72.60	—	59.65	59.65	59.15		0.0
MW-7D	4	Y	Y	Y	Y	Y	95.75	—	59.96	59.96	59.47		0.0
MW-11	4	Y	Y	N	Y	Y	93.65	—	60.10	60.10	58.26		0.0
MW-10	4	Y	Y	Y	Y	Y	94.80	—	58.80	58.80	58.40		0.0
MW-9	4	Y	Y	Y	Y	Y	93.65	—	58.76	58.76	58.18		0.0
MW-5D	4	Y	Y	Y	Y	Y	90.77	—	57.20	57.20	56.60		0.0
MW-5S	4	Y	Y	Y	Y	Y	70.20	—	57.19	57.19	57.80		0.0
MW-12	4	Y	Y	N	Y	Y	81.20	—	59.75	59.75	59.32		0.0
MW-4	4						80.69	—	58.40	58.40	57.90		0.0

NOTES:

ARCADIS GERAGHTY & MILLER



ARCADIS

Low Flow Groundwater Sampling Form

Project Name Southgate
Project Number QA67.0801
Field Personnel S. ESPADA

WELL ID# Mw-10
Date 6/15/09

Screened Interval 52 - 97

Casing Type: PVC St. Steel Other _____

St. Steel Other

Pumping inlet depth 78

Diameter (inches) 4

Static Water Level 58.80

Volume Purged 5.3 L

Time	Minutes Elapsed	DTW	Rate (gpm/M)	Volume Purged	pH	Cond. (mS/cm)	ORP (mV)	Turb NTU	DO (mg/l)	TEMP. (°F/°C)	REMARKS
1036	0	59.25	200	500	7.26	3.01	64	1.3	8.67	24.28	CLEAR
1039	3	59.30	ZW	1100	7.23	3.01	-1	21	8.41	22.86	
1042	6	59.30	200	1700	7.37	3.02	-23	21	8.09	23.22	
1045	9	59.23	ZW	2300	7.37	3.02	-44	21	7.56	24.18	
1048	12	59.19	200	2900	7.40	3.03	-37	12	7.21	25.48	
1051	15	59.14	ZW	3500	7.42	3.02	-40	1.2	7.06	25.6	
1054	18	59.10	ZW	4100	7.43	3.02	-47	1.6	6.94	25.61	
1057	21	59.10	ZW	4700	7.43	3.01	-49	2.1	7.00	25.61	
1100	24	59.10	200	5300	7.44	3.01	-48	2.4	6.97	25.69	D

PURGING EQUIPMENT	
	2" BLADDER PUMP
	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
	PERISTALTIC PUMP
	DEDICATED PUMP
	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
PUMP	174.10
TEFLON BAILER	
SS BAILER	
DISPOS. BAILER	
DOL SAMPLER	
OTHER (SPECIFY)	

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ²⁺		
H ₂ S		

REMARKS/COMMENTS Sampled @ 1103(6)

COMPLETED BY JESSE ESTRADA

REVIEWED BY

SIGNATURE D. L. Dally

DATE _____



Low Flow Groundwater Sampling Form

Project Name Southgate
 Project Number CA 071-0801
 Field Personnel JESSESPAMA

WELL ID# Mw-3
 Date 6/15/09

Screened Interval 50 - 85

Casing Type: PVC St. Steel Other _____

Pumping inlet depth 71

Diameter (inches) 4

Static Water Level 56.87
M-78-TD m L Volume Purged 3.5L

Time	Minutes Elapsed	DTW	Rate (gpm)	Volume Purged	pH	Cond. (mg/L)	ORP (mV)	Turb NTU	DO (mg/L)	TEMP. (°F/°C)	REMARKS
1443	0	5840	200	500	7.40	4.29	-111	7.5	7.91	23.01	DATA
1446	3	5846	200	1100	7.37	4.35	-115	7.3	7.22	22.95	
1449	6	5850	200	1700	7.35	4.35	-104	14.5	6.83	23.42	
1452	9	5852	200	2300	7.37	4.32	-103	13.4	6.74	23.26	
1455	12	5856	200	2900	7.37	4.33	-102	12.1	6.76	23.15	
1458	15	5858	200	3500	7.38	4.33	-103	9.8	6.54	23.24	



ARCADIS

Low Flow Groundwater Sampling Form

Project Name South Gate
Project Number 0457-001
Field Personnel JES-TZADA

WELL ID# Mw-4
Date 6/15/09

Screened Interval 50-85

Casing Type: PVC St. Steel Other _____

Pumping inlet depth 72

Diameter (inches) 4

Static Water Level 58.40

Volume Purged 3.5L

PURGING EQUIPMENT	
	2" BLADDER PUMP
	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
	PERISTALTIC PUMP
	DEDICATED PUMP
	OTHER (SPECIFY)

<u>to 2</u>	<u>+ 10%</u>
SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/>	PUMP
<input type="checkbox"/>	TEFLON BAILER
<input type="checkbox"/>	SS BAILER
<input type="checkbox"/>	DISPOS. BAILER
<input type="checkbox"/>	DDL SAMPLER
<input type="checkbox"/>	OTHER (SPECIFY)

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE **		
H ₂ S		

REMARKS/COMMENTS Samples @ 1545(6) / High P.H.
well located in wash pack.

COMPLETED BY JESSE ESTRADA

REVIEWED BY _____

SIGNATURE

DATE _____



ARCADIS

Low Flow Groundwater Sampling Form

Project Name Southgate
Project Number 04677.0801
Field Personnel JES/PAYA

WELL ID# Mw-9
Date 6/16/09

Screened Interval 52-97

Casing Type: PVC St. Steel Other

Pumping inlet depth 78

Diameter (inches) 4

Static Water Level 58.63

Volume Purged 4.14

Time	Minutes Elapsed	DTW	Rate (g/min/l)	Volume Purged	pH	Cond. (mg/l) (mhos/cm)	ORP (mV)	Turb NTU	DO (mg/l)	TEMP. °F/°C	REMARKS
0758	0	58.73	200	500	7.07	2.71	-84	0.0	6.19	22.49	CLEAR
0801	3	58.73	200	1100	7.28	2.66	-99	0.0	6.01	22.89	
0804	6	58.73	200	1700	7.37	2.65	-109	0.0	5.97	22.96	
0807	9	58.73	200	2300	7.41	2.65	-115	0.0	5.95	23.02	
0810	12	58.73	200	2900	7.42	2.65	-118	0.0	5.93	23.09	
0813	15	58.73	200	3500	7.42	2.65	-119	0.0	5.90	23.14	
0816	18	58.73	200	4100	7.43	2.65	-120	0.0	5.89	23.15	

PURGING EQUIPMENT

- 2" BLADDER PUMP
 - CENTRIFUGAL PUMP
 - SUBMERSIBLE PUMP
 - PERISTALTIC PUMP
 - DEDICATED PUMP
 - OTHER (SPECIFY) _____

SAMPLING EQUIPMENT

- PUMP 7100
 TEFLON BAILER
 SS BAILER
 DISPOS. BAILER
 DDL SAMPLER
 OTHER (SPECIFY):

• 151 •

WATER TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ^{**}		
H ₂ S		

REMARKS/COMMENTS SANDY 2 0820(6)

COMPLETED BY: ESSE EST PENDA

REVIEWED BY _____

SIGNATURE

DATE



ARCADIS

Low Flow Groundwater Sampling Form

Project Name SOUTH GATE
Project Number CP677.C&O1
Field Personnel JES-PWNA

WELL ID# Mw-55
Date 6/16/09

Screened Interval 53-73

Casing Type: PVC St. Steel Other _____

St. Steel Other _____

Pumping inlet depth 65

Diameter (inches) 4

Static Water Level 57.10

Volume Purged 3.5L

PURGING EQUIPMENT	
	2" BLADDER PUMP
	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
	PERISTALTIC PUMP
	DEDICATED PUMP
	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
1	PUMP
	TEFLON BAILER
	SS BAILER
	DISPOS. BAILER
	DDL SAMPLER
	OTHER (SPECIFY):

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE **		
H ₂ S		

REMARKS/COMMENTS Sample e c905(6)

COMPLETED BY JESSE FESTINA

REVIEWED BY _____

SIGNATURE

DATE



ARCADIS

Low Flow Groundwater Sampling Form

Project Name Saffibate
Project Number CP 67.08-01
Field Personnel J. ESI-PDNA

WELL ID# MW-5D
Date 6/15/09

Screened Interval 83-03

Casing Type: PVC St. Steel Other _____

Pumping inlet depth 88

Diameter (Inches) 4

Static Water Level 56.80

Volume Purged 5.3L

Time	Minutes Elapsed	DTW	Rate (gpm/ML)	Volume Purged	pH	Cond. (mS/cm) (umhos/cm)	ORP (mV)	Turb NTU	DO (mg/l)	TEMP. (°F / °C)	REMARKS
0954	0	58.05	2w	500	7.73	0.934	-195	0.0	7.26	23.33	CLEAR
0957	3	58.37	2w	1100	7.55	0.947	-183	0.0	6.87	23.13	
1000	6	58.58	2w	1700	7.51	0.948	-183	0.0	6.59	23.12	
1003	9	58.75	200	2300	7.55	0.949	-182	0.0	6.29	24.17	
1006	12	58.83	2w	2900	7.57	0.950	-183	0.0	6.18	24.40	
1009	15	58.90	2w	3500	7.58	0.948	-185	0.0	6.05	24.68	
1012	18	58.95	200	4100	7.60	0.945	-186	0.0	5.99	24.72	
1015	21	58.95	2w	4700	7.61	0.948	-188	0.0	5.97	24.57	
1018	24	58.95	2w	5300	7.62	0.948	-190	0.0	5.92	24.47	✓

PURGING EQUIPMENT	
	2" BLADDER PUMP
	CENTRIFUGAL PUMP
1	SUBMERSIBLE PUMP
	PERISTALTIC PUMP
	DEDICATED PUMP
	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
✓	PUMP 57.70
	TEFLON BAILER
	SS BAILER
	DISPOS. BAILER
	DDL SAMPLER
	OTHER (SPECIFY):

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ²⁺		
H ₂ S		

REMARKS/COMMENTS Sampled c 1020 (6) / TURBIDITY = 0.66

COMPLETED BY: JESSE ESTEPANA

REVIEWED BY

SIGNATURE

DATE



ARCADIS

Low Flow Groundwater Sampling Form

Project Name Southgate
Project Number CP 677.0801
Field Personnel JES/DANA

WELL ID# MW-6D
Date 6/15/09

Screened Interval $\boxed{8} - \boxed{9}$

Casing Type: PVC St. Steel Other

Pumping inlet depth 86

Diameter (inches) 4

Static Water Level 58.38

Volume Purged 5.3 L

Time	Minutes Elapsed	DTW	Rate (gmin⁻¹)	Volume Purged	pH	Cond. (mS/cm) <small>(approx.)</small>	ORP (mV)	Turb NTU	DO (mg/L)	TEMP. (°F/°C)	REMARKS
11 09	0	58.45	200	500	7.62	0.885	45	0.0	7.05	27.22	0
11 12	3	58.45	200	1100	7.25	1.11	-500	0.8	6.91	26.32	
11 15	6	58.45	200	1700	7.30	1.12	-78	0.6	6.66	26.23	
11 18	9	58.45	200	2300	7.27	1.13	-92	1.1	6.51	25.7	
11 21	12	58.45	200	2900	7.27	1.12	-94	1.4	6.43	25.18	
11 24	15	58.45	200	3500	7.28	1.10	-94	1.7	6.33	25.77	
11 27	18	58.45	200	4100	7.28	1.10	-97	2.2	6.20	25.71	
11 30	21	58.45	200	4700	7.30	1.10	-94	1.9	6.11	25.14	
11 33	24	58.45	200	5300	7.30	1.09	-94	1.7	6.08	25.81	0

PURGING EQUIPMENT

- | WATER PUMPING EQUIPMENT | |
|-------------------------------------|------------------|
| | 2" BLADDER PUMP |
| <input checked="" type="checkbox"/> | CENTRIFUGAL PUMP |
| <input checked="" type="checkbox"/> | SUBMERSIBLE PUMP |
| <input checked="" type="checkbox"/> | PERISTALTIC PUMP |
| <input checked="" type="checkbox"/> | DEDICATED PUMP |
| <input checked="" type="checkbox"/> | OTHER (SPECIFY) |

SAMPLING EQUIPMENT

- GROUTING EQUIPMENT**

L	PUMP	172-60
	TEFLON BAILER	
	SS BAILER	
	DISPOS. BAILER	
	DDL SAMPLER	
	OTHER (SPECIFY)	

FIELD TEST KITS

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ²⁺		
H ₂ S		

REMARKS/COMMENTS Sample e 1135(6) Turbidity = 1.8

COMPLETED BY ESSE E SPOMA

REVIEWED BY

SIGNATURE

DATE _____ SIGNATURE _____



ARCADIS

Low Flow Groundwater Sampling Form

Project Name Southgate
Project Number CP-677.08.01
Field Personnel ESTRADA

WELL ID# Mw-12
Date 6/5/09

Screened Interval 40 - 75

Casing Type: PVC St. Steel Other _____

St. Steel Other

Pumping inlet depth 65

Diameter (inches) 4

Static Water Level 59.60

Volume Purged 5.3 L

Time	Minutes Elapsed	DTW	Rate (ml/min/l)	Volume Purged	pH	Cond. (mg/l) (conductance)	ORP (mV)	Turb NTU	DO (mg/l)	TEMP. (°F/°C)	REMARKS
12:12	0	60.15	Zn)	500	7.38	3.10	-88	10.0	6.24	24.95	Cloudy
12:15	3	60.10	Zn)	1100	7.34	3.18	-82	13.2	6.05	24.5	
12:18	6	60.10	Zn)	1700	7.33	3.17	-80	17.9	5.77	24.94	
12:21	9	60.03	Zn)	2300	7.34	3.19	-79	13.7	5.65	24.84	
12:24	12	60.00	Zn)	2900	7.34	3.18	-82	11.0	5.47	25.15	
12:27	15	60.00	Zn)	3500	7.34	3.18	-83	7.8	5.33	25.39	
12:30	18	60.00	Zn)	4100	7.34	3.18	-85	5.9	5.34	25.45	N
12:33	21	60.00	Zn)	4700	7.35	3.19	-88	4.9	5.30	25.65	clear
12:36	24	60.00	Zn)	5300	7.35	3.19	-89	3.8	5.27	25.52	d

PURGING EQUIPMENT	
	2" BLADDER PUMP
	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
	PERISTALTIC PUMP
	DEDICATED PUMP
	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/>	PUMP <u>73.00</u>
<input type="checkbox"/>	TEFLON BAILER
<input type="checkbox"/>	SS BAILER
<input type="checkbox"/>	DISPOS. BAILER
<input type="checkbox"/>	DDL SAMPLER
<input type="checkbox"/>	OTHER (SPECIFY):

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
EE ^{**}		
H ₂ S		

REMARKS/COMMENTS SAMPLED @ 1240 (6) | 3.3 TURBIDITY.

COMPLETED BY: JESSE ESTEPNA

REVIEWED BY

SIGNATURE **DATE**

DATE _____



Low Flow Groundwater Sampling Form

Project Name Southgate
 Project Number CA6710801
 Field Personnel J. EST/RAVNA

WELL ID# Mw-78
 Date 6/17/09

Screened Interval 53-73

Casing Type: PVC St. Steel Other _____

Pumping inlet depth 66

Diameter (inches) 4

Static Water Level 59.50

Volume Purged 4.1 L

Time	Minutes Elapsed	DTW	Rate (ml/min)	Volume Purged	pH	Cond. ($\mu\text{S}/\text{cm}$)	Casing Type:		DO (mg/L)	TEMP. ($^{\circ}\text{F}/^{\circ}\text{C}$)	REMARKS
							Stainless Steel	Other			
0802	0	60.62	200	500	6.72	495	150	5.7	6.25	22.74	015a2
0805	3	60.62	200	1100	7.14	5,00	137	2.7	6.09	22.73	
0808	6	60.62	200	1700	7.29	5,02	127	2.4	6.03	22.80	
0811	9	60.62	200	2300	7.36	5,02	121	2.1	5.99	22.93	
0814	12	60.62	200	2900	7.40	5,01	119	2.1	5.90	23.33	
0818	15	60.62	200	3500	7.41	5,02	110	1.2	5.88	23.42	
0821	18	60.62	200	4100	7.41	5,02	106	2.1	5.77	23.89	

PURGING EQUIPMENT	
<input checked="" type="checkbox"/>	2" BLADDER PUMP
<input type="checkbox"/>	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
<input type="checkbox"/>	PERISTALTIC PUMP
<input type="checkbox"/>	DEDICATED PUMP
<input type="checkbox"/>	OTHER (SPECIFY):

SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/>	PUMP <u>173.80</u>
<input type="checkbox"/>	TEFLON BAILER
<input type="checkbox"/>	SS BAILER
<input type="checkbox"/>	DISPOS. BAILER
<input type="checkbox"/>	DDL SAMPLER
<input type="checkbox"/>	OTHER (SPECIFY):

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ²⁺		
H ₂ S		

REMARKS/COMMENTS Sampled e 0825(6)

COMPLETED BY JESSE EST/RAVNA

REVIEWED BY _____

SIGNATURE Jesse

DATE _____



Low Flow Groundwater Sampling Form

Project Name South Holste
 Project Number 0467.08.01
 Field Personnel J. ESTRADA

WELL ID# 11wy-1
 Date 6/17/09

Screened Interval 65-75
 Pumping inlet depth 70

Casing Type: PVC St. Steel Other _____
 Diameter (inches) 4

Static Water Level 58.40 m Volume Purged 5.3 L

Time	Minutes Elapsed	DTW	Rate (gpm)	Volume Purged	pH	Cond. mg/L	ORP mV	Turb NTU	DO (mg/L)	TEMP. (F/C)	REMARKS
1040	0	5846	200	500	7.30	6.44	-148	4.5	6.30	28.17	CLEAR
1043	3	5846	200	1100	7.28	6.53	-148	11.9	5.66	28.74	
1046	6	5846	200	1700	7.28	6.56	-145	7.6	5.71	28.12	
1049	9	5846	200	2300	7.29	6.56	-144	10.3	5.74	27.62	
1052	12	5846	200	2900	7.30	6.59	-143	11.2	5.79	27.07	
1055	15	5846	200	3500	7.30	6.56	-142	13.7	5.67	27.18	
1058	18	5846	200	4100	7.30	6.54	-142	15.9	5.51	27.53	
1101	21	5846	200	4700	7.29	6.54	-144	14.4	5.81	27.74	
1104	24	5846	200	5300	7.29	6.53	-144	13.2	5.31	27.81	C

PURGING EQUIPMENT	
<input checked="" type="checkbox"/>	2" BLADDER PUMP
<input type="checkbox"/>	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
<input type="checkbox"/>	PERISTALTIC PUMP
<input type="checkbox"/>	DEDICATED PUMP
<input type="checkbox"/>	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/>	PUMP
<input type="checkbox"/>	TEFLON BAILEY
<input type="checkbox"/>	SS BAILEY
<input type="checkbox"/>	DISPOS. BAILEY
<input type="checkbox"/>	DDL SAMPLER
<input type="checkbox"/>	OTHER (SPECIFY)

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ⁺⁺		
H ₂ S		

REMARKS/COMMENTS Sampled c 1107(6) / Turbidity - 20.3

COMPLETED BY JESSE ESTRADA
 SIGNATURE
 g:\common\FORMS\PURGE LOG - LOWFLOW

REVIEWED BY _____
 DATE _____



Low Flow Groundwater Sampling Form

Project Name San Joaquin
 Project Number CA 677.08.01
 Field Personnel J. ESTRADA

WELL ID# MW-6S
 Date 6/17/09

Screened Interval 51-71

Casing Type: PVC St. Steel Other

Pumping inlet depth 64

Diameter (inches) 4

Static Water Level 58.10 mL Volume Purged 53 L

Time	Minutes Elapsed	DTW	Rate (ml/min)	Volume Purged	pH	Cond. (^μ S/cm)	ORP (mV)	Turb NTU	DO (mg/L)	TEMP. (F/°C)	REMARKS
1134	0	5890	200	540	7.15	7.12	0	1.1	6.0	27.25	clear
1137	3	5898	200	1100	7.13	7.15	26	1.5	5.8	27.44	
1140	6	5902	200	1700	7.13	7.13	36	1.5	5.6	27.56	
1143	9	5910	200	2300	7.13	7.08	44	1.8	5.5	27.96	
1146	12	5910	200	2900	7.13	7.06	48	2.1	5.4	28.28	
1149	15	5910	200	3500	7.12	7.09	51	2.3	5.3	28.38	
1152	18	5910	200	4100	7.13	7.03	51	3.1	5.2	28.66	
1155	21	5910	200	4700	7.13	7.04	53	2.8	5.1	28.60	
1158	24	5910	200	5300							

PURGING EQUIPMENT	
<input checked="" type="checkbox"/>	2" BLADDER PUMP
<input type="checkbox"/>	CENTRIFUGAL PUMP
<input checked="" type="checkbox"/>	SUBMERSIBLE PUMP
<input type="checkbox"/>	PERISTALTIC PUMP
<input type="checkbox"/>	DEDICATED PUMP
<input type="checkbox"/>	OTHER (SPECIFY)

SAMPLING EQUIPMENT	
<input checked="" type="checkbox"/>	PUMP
<input type="checkbox"/>	TEFLON BAILEY
<input type="checkbox"/>	SS BAILEY
<input type="checkbox"/>	DISPOS. BAILEY
<input type="checkbox"/>	DDL SAMPLER
<input type="checkbox"/>	OTHER (SPECIFY):

FIELD TEST KITS		
Test	Concentration (mg/L)	Time
DO		
FE ²⁺		
H ₂ S		
OTHER (SPECIFY):		

REMARKS/COMMENTS

Sampled @ 1202(6) DFL 2 Sampled @ 1205(6)
TURBIDITY = 12.3

COMPLETED BY JESSE ESTRADA

REVIEWED BY _____

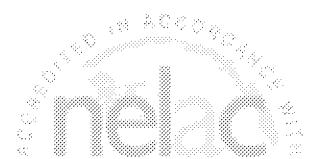
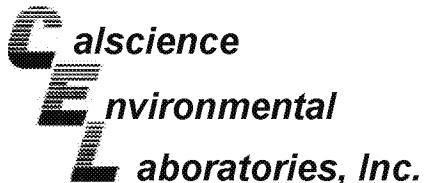
SIGNATURE J. Estrada

DATE _____

ARCADIS

Appendix B

Laboratory Analytical
Results and Chain-of-
Custody Documentation



June 22, 2009

Greg Fiol
ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Subject: **Calscience Work Order No.: 09-06-1427**
Client Reference: **South Gate / CA000677.0008.00001**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/15/2009 and analyzed in accordance with the attached chain-of-custody.

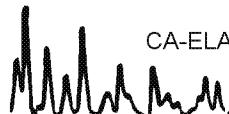
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

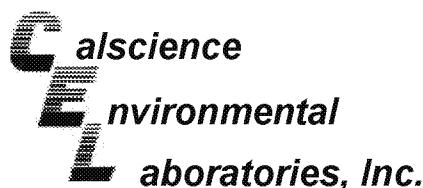
A handwritten signature in black ink, enclosed in an oval. The name "Virendra Patel" is written in cursive script.

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

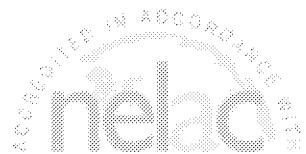


CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 1 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-06-1427-1-D	06/15/09 11:03	Aqueous	ICP 5300	06/16/09	06/17/09 12:45	090616LA3

Comment(s): -Mercury was analyzed on 6/16/2009 7:58:16 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0896	0.00500	1	
Barium	0.0342	0.0100	1		Nickel	0.0608	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.00743	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00550	0.00500	1	
Copper	0.00528	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

MW-12(H)	09-06-1427-2-D	06/15/09 12:05	Aqueous	ICP 5300	06/16/09	06/17/09 12:48	090616LA3
----------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/16/2009 8:00:32 PM with batch 090616L05

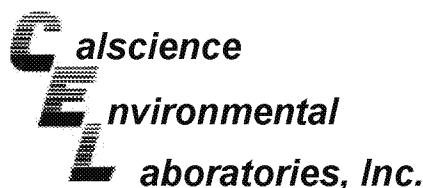
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0658	0.00500	1	
Barium	0.172	0.0100	1		Nickel	0.0759	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.00614	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	0.0150	0.0100	1	
Lead	ND	0.0100	1						

MW-5D(H)	09-06-1427-3-D	06/15/09 12:33	Aqueous	ICP 5300	06/16/09	06/17/09 13:02	090616LA3
----------	----------------	----------------	---------	----------	----------	----------------	-----------

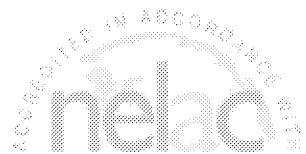
Comment(s): -Mercury was analyzed on 6/16/2009 8:02:48 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.00762	0.00500	1	
Barium	0.0127	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 2 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7D(H)	09-06-1427-4-D	06/15/09 13:00	Aqueous	ICP 5300	06/16/09	06/17/09 13:03	090616LA3

Comment(s): -Mercury was analyzed on 6/16/2009 8:05:04 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	0.00122	0.000500	1	
Arsenic	0.723	0.0100	1		Molybdenum	0.0480	0.00500	1	
Barium	0.0248	0.0100	1		Nickel	0.249	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.00976	0.00500	1		Vanadium	0.00826	0.00500	1	
Copper	0.232	0.00500	1		Zinc	0.0502	0.0100	1	
Lead	ND	0.0100	1						

MW-6D(H)	09-06-1427-5-D	06/15/09 13:22	Aqueous	ICP 5300	06/16/09	06/17/09 13:04	090616LA3
----------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/16/2009 8:07:21 PM with batch 090616L05

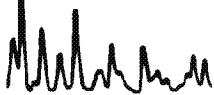
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0596	0.0100	1		Molybdenum	0.0386	0.00500	1	
Barium	0.523	0.0100	1		Nickel	0.0288	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.0107	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0415	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00861	0.00500	1	
Copper	0.140	0.00500	1		Zinc	0.576	0.0100	1	
Lead	0.0420	0.0100	1						

MW-6S(H)	09-06-1427-6-D	06/15/09 13:45	Aqueous	ICP 5300	06/16/09	06/17/09 13:05	090616LA3
----------	----------------	----------------	---------	----------	----------	----------------	-----------

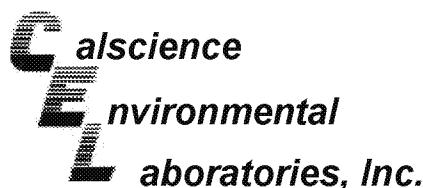
Comment(s): -Mercury was analyzed on 6/16/2009 8:09:35 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	2.47	0.0100	1		Molybdenum	0.0374	0.00500	1	
Barium	0.263	0.0100	1		Nickel	0.457	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.0138	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0483	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0245	0.00500	1		Vanadium	0.0236	0.00500	1	
Copper	0.272	0.00500	1		Zinc	0.999	0.0100	1	
Lead	0.0307	0.0100	1						

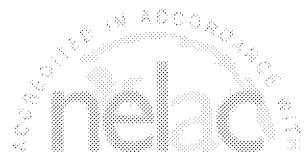
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 3 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1(H)	09-06-1427-7-D	06/15/09 14:11	Aqueous	ICP 5300	06/16/09	06/17/09 13:07	090616LA3

Comment(s): -Mercury was analyzed on 6/16/2009 8:11:45 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.919	0.0100	1		Molybdenum	0.0370	0.00500	1	
Barium	0.226	0.0100	1		Nickel	0.232	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.00555	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0506	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.00889	0.00500	1		Vanadium	0.0203	0.00500	1	
Copper	0.435	0.00500	1		Zinc	0.960	0.0100	1	
Lead	0.0517	0.0100	1						

MW-3	09-06-1427-8-D	06/15/09 15:02	Aqueous	ICP 5300	06/16/09	06/17/09 13:08	090616LA3
------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/16/2009 8:13:55 PM with batch 090616L05

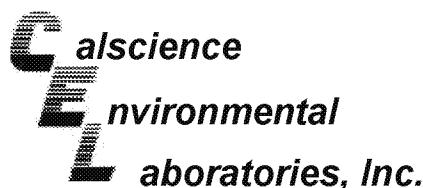
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0519	0.0100	1		Molybdenum	0.115	0.00500	1	
Barium	0.170	0.0100	1		Nickel	0.507	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0103	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0186	0.00500	1		Vanadium	0.00545	0.00500	1	
Copper	0.114	0.00500	1		Zinc	0.217	0.0100	1	
Lead	0.0145	0.0100	1						

MW-4	09-06-1427-9-D	06/15/09 15:45	Aqueous	ICP 5300	06/16/09	06/17/09 13:09	090616LA3
------	----------------	----------------	---------	----------	----------	----------------	-----------

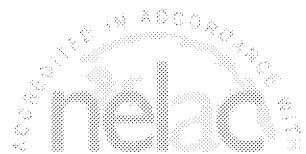
Comment(s): -Mercury was analyzed on 6/16/2009 8:16:06 PM with batch 090616L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	0.0234	0.0150	1		Mercury	0.000898	0.000500	1	
Arsenic	0.0971	0.0100	1		Molybdenum	0.235	0.00500	1	
Barium	0.0911	0.0100	1		Nickel	0.292	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	0.170	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0133	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00841	0.00500	1	
Copper	0.319	0.00500	1		Zinc	2.96	0.0100	1	
Lead	0.0589	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 4 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ Blank	09-06-1427-10-D	06/15/09 16:15	Aqueous	ICP 5300	06/16/09	06/17/09 13:10	090616LA3

Comment(s): -Mercury was analyzed on 6/16/2009 8:18:18 PM with batch 090616L05

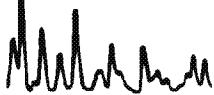
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	099-04-008-4,174	N/A	Aqueous	Mercury	06/16/09	06/16/09 19:31	090616L05
--------------	------------------	-----	---------	---------	----------	----------------	-----------

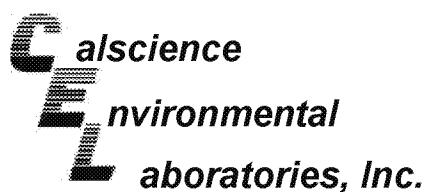
Parameter	Result	RL	DF	Qual			
Mercury	ND	0.000500	1				
Method Blank	097-01-003-9,488	N/A	Aqueous	ICP 5300	06/16/09	06/18/09 16:43	090616LA3

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-06-1427-1-E	06/15/09 11:03	Aqueous	GC 45	06/15/09	06/16/09 14:40	090615B18

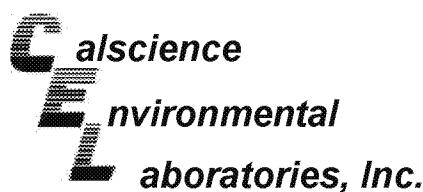
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	15		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	123	68-140							
MW-12(H)	09-06-1427-2-E	06/15/09 12:05	Aqueous	GC 45	06/15/09	06/16/09 14:55	090615B18		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	121	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5D(H)	09-06-1427-3-E	06/15/09 12:33	Aqueous	GC 45	06/15/09	06/16/09 15:11	090615B18

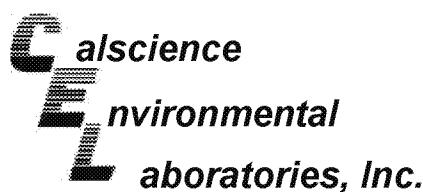
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	59		1		C41-C44	ND		1	
C17-C18	15		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	116	68-140							
MW-7D(H)	09-06-1427-4-E	06/15/09 13:00	Aqueous	GC 45	06/15/09	06/16/09 15:26	090615B18		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	150		1		C23-C24	ND		1	
C8	8.5		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	86		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	114	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6D(H)	09-06-1427-5-E	06/15/09 13:22	Aqueous	GC 45	06/15/09	06/16/09 15:42	090615B18

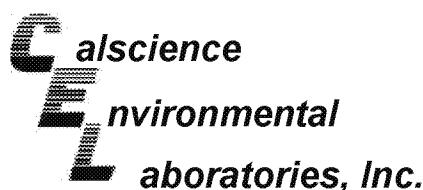
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total		ND	500	1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	93	68-140							
MW-6S(H)	09-06-1427-6-E	06/15/09 13:45	Aqueous	GC 45	06/15/09	06/16/09 15:58	090615B18		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	140		1	
C7	41		1		C23-C24	120		1	
C8	16		1		C25-C28	170		1	
C9-C10	31		1		C29-C32	140		1	
C11-C12	28		1		C33-C36	46		1	
C13-C14	77		1		C37-C40	3.6		1	
C15-C16	64		1		C41-C44	94		1	
C17-C18	170		1		C6-C44 Total		1300	500	1
C19-C20	150		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	120	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1(H)	09-06-1427-7-E	06/15/09 14:11	Aqueous	GC 45	06/15/09	06/16/09 16:14	090615B18

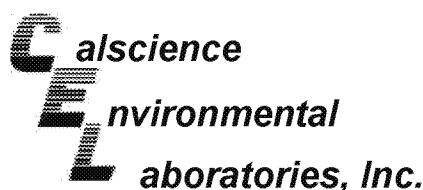
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	73		1	
C8	7.7		1		C25-C28	120		1	
C9-C10	18		1		C29-C32	150		1	
C11-C12	ND		1		C33-C36	150		1	
C13-C14	21		1		C37-C40	63		1	
C15-C16	13		1		C41-C44	180		1	
C17-C18	27		1		C6-C44 Total	850	500		1
C19-C20	18		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	111	68-140							
MW-3	09-06-1427-8-E	06/15/09 15:02	Aqueous	GC 45	06/15/09	06/16/09 16:29	090615B18		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	114	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 5 of 5

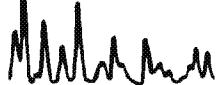
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-06-1427-9-E	06/15/09 15:45	Aqueous	GC 45	06/15/09	06/16/09 16:45	090615B18

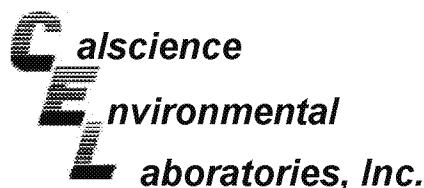
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual		
C6	ND		1		C21-C22	76		1			
C7	12		1		C23-C24	32		1			
C8	ND		1		C25-C28	ND		1			
C9-C10	220		1		C29-C32	ND		1			
C11-C12	1900		1		C33-C36	ND		1			
C13-C14	750		1		C37-C40	ND		1			
C15-C16	350		1		C41-C44	ND		1			
C17-C18	1600		1		C6-C44 Total	5100	500	1			
C19-C20	100		1								
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>							
Decachlorobiphenyl	107	68-140									
EQ Blank					09-06-1427-10-E	06/15/09 16:15	Aqueous	GC 45	06/15/09	06/16/09 17:00	090615B18

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual		
C6	ND		1		C21-C22	ND		1			
C7	ND		1		C23-C24	ND		1			
C8	ND		1		C25-C28	ND		1			
C9-C10	ND		1		C29-C32	ND		1			
C11-C12	ND		1		C33-C36	ND		1			
C13-C14	ND		1		C37-C40	ND		1			
C15-C16	ND		1		C41-C44	ND		1			
C17-C18	ND		1		C6-C44 Total	ND	500	1			
C19-C20	ND		1								
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>							
Decachlorobiphenyl	111	68-140									
Method Blank					099-12-308-1,116	N/A	Aqueous	GC 45	06/15/09	06/16/09 13:54	090615B18

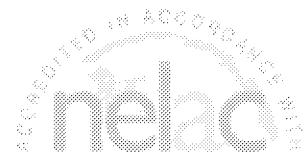
Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	500	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	111	68-140		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc. Date Received: 06/15/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1427
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-06-1427-1-F	06/15/09 11:03	Aqueous	GC/MS AAA	06/16/09	06/20/09 13:28	090616L10D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	13	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	83	56-123			

MW-12(H)	09-06-1427-2-F	06/15/09 12:05	Aqueous	GC/MS AAA	06/16/09	06/20/09 13:53	090616L10D
----------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	140	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	91	56-123			

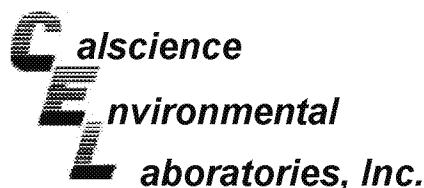
MW-5D(H)	09-06-1427-3-F	06/15/09 12:33	Aqueous	GC/MS AAA	06/16/09	06/20/09 14:18	090616L10D
----------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	25	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	82	56-123			

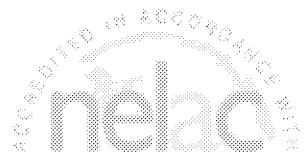
MW-7D(H)	09-06-1427-4-F	06/15/09 13:00	Aqueous	GC/MS AAA	06/16/09	06/20/09 14:42	090616L10D
----------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	37	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	91	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/15/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1427
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6D(H)	09-06-1427-5-F	06/15/09 13:22	Aqueous	GC/MS AAA	06/16/09	06/20/09 15:06	090616L10D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	2.9	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	88	56-123			

MW-6S(H)	09-06-1427-6-F	06/15/09 13:45	Aqueous	GC/MS AAA	06/16/09	06/20/09 15:31	090616L10D
----------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	6.1	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	68	56-123			

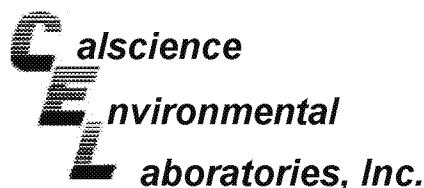
MW-1(H)	09-06-1427-7-F	06/15/09 14:11	Aqueous	GC/MS AAA	06/16/09	06/20/09 15:55	090616L10D
---------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	3.2	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	90	56-123			

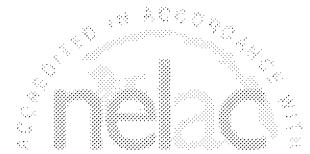
MW-3	09-06-1427-8-F	06/15/09 15:02	Aqueous	GC/MS AAA	06/16/09	06/20/09 16:20	090616L10D
------	----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	16	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	88	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/15/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1427
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-06-1427-9-F	06/15/09 15:45	Aqueous	GC/MS AAA	06/16/09	06/20/09 16:44	090616L10D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	19	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	87	56-123			

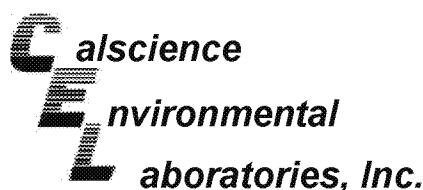
EQ Blank	09-06-1427-10-F	06/15/09 16:15	Aqueous	GC/MS AAA	06/16/09	06/20/09 17:08	090616L10D
----------	-----------------	----------------	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	82	56-123			

Method Blank	099-09-004-1,270	N/A	Aqueous	GC/MS AAA	06/16/09	06/20/09 09:48	090616L10D
--------------	------------------	-----	---------	-----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	82	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

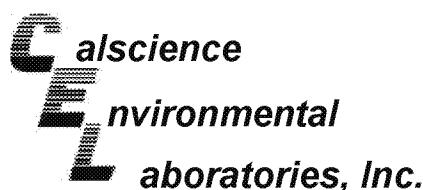
Project: South Gate / CA000677.0008.00001

Page 1 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	09-06-1427-1-A	06/15/09 11:03	Aqueous	GC/MS OO	06/18/09	06/18/09 19:54	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.50	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	4.8	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	5.5	1.0	1		Trichloroethene	21	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.9	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	3.6	1.0	1		Vinyl Chloride	0.71	0.50	1	
c-1,2-Dichloroethene	73	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	3.9	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	96	82-130			1,2-Dichloroethane-d4	91	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

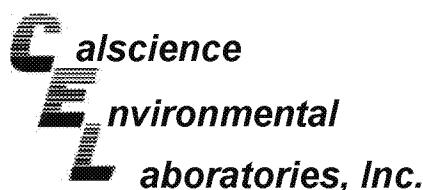
Project: South Gate / CA000677.0008.00001

Page 2 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12(H)	09-06-1427-2-A	06/15/09 12:05	Aqueous	GC/MS OO	06/18/09	06/18/09 20:20	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	1.1	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	5.3	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.52	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	13	1.0	1		Vinyl Chloride	0.84	0.50	1	
c-1,2-Dichloroethene	6.4	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	97	82-130			1,2-Dichloroethane-d4	102	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	103	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

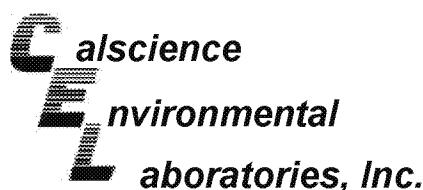
Page 3 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5D(H)	09-06-1427-3-A	06/15/09 12:33	Aqueous	GC/MS OO	06/18/09	06/18/09 20:47	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	1.2	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	85	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.5	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	106	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

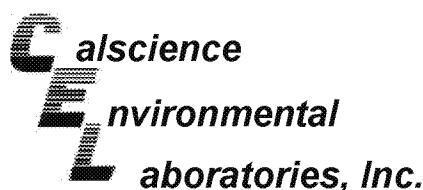
Project: South Gate / CA000677.0008.00001

Page 4 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7D(H)	09-06-1427-4-A	06/15/09 13:00	Aqueous	GC/MS OO	06/18/09	06/18/09 21:14	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	2.5	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	34	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	3.1	1.0	1	
1,2-Dichlorobenzene	72	1.0	1		Trichloroethene	870	10	10	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	9.6	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	17	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	76	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	10	1.0	1		Vinyl Chloride	0.71	0.50	1	
c-1,2-Dichloroethene	170	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	6.8	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	15	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	98	82-130			1,2-Dichloroethane-d4	98	75-141		
Toluene-d8	107	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

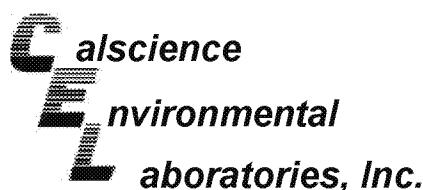
Page 5 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6D(H)	09-06-1427-5-B	06/15/09 13:22	Aqueous	GC/MS OO	06/19/09	06/19/09 17:04	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	2.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.90	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	44	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	2.0	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	107	82-130			1,2-Dichloroethane-d4	97	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

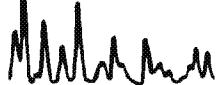
Project: South Gate / CA000677.0008.00001

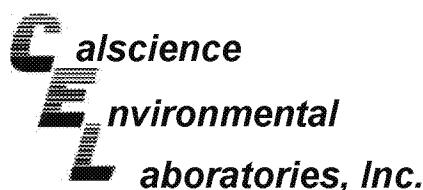
Page 6 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6S(H)	09-06-1427-6-A	06/15/09 13:45	Aqueous	GC/MS OO	06/18/09	06/18/09 22:07	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	2.9	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	6.9	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	53	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	1.4	1.0	1	
1,2-Dichlorobenzene	6.9	1.0	1		Trichloroethene	230	10	10	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	4.0	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.3	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	4.3	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	540	10	10		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	3.8	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	5.3	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	107	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	94	83-113			1,4-Bromofluorobenzene	102	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

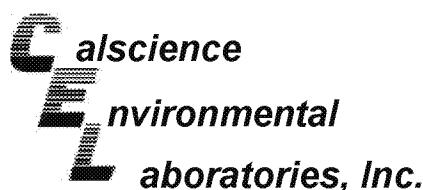
Page 7 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1(H)	09-06-1427-7-A	06/15/09 14:11	Aqueous	GC/MS OO	06/18/09	06/18/09 22:34	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	1.2	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	1.8	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	6.7	1.0	1		Trichloroethene	13	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	1.7	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.93	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	1.8	1.0	1		Vinyl Chloride	0.64	0.50	1	
c-1,2-Dichloroethene	220	2.0	2		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	2.6	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	1.7	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	91	75-141		
Toluene-d8	89	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

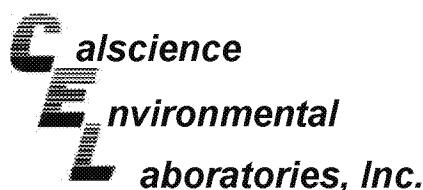
Project: South Gate / CA000677.0008.00001

Page 8 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-06-1427-8-A	06/15/09 15:02	Aqueous	GC/MS OO	06/18/09	06/18/09 23:00	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.62	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	5.8	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	63	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	8.3	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	6.6	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	5.7	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	620	10	10		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	6.4	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	2.5	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	107	82-130			1,2-Dichloroethane-d4	100	75-141		
Toluene-d8	105	83-113			1,4-Bromofluorobenzene	101	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

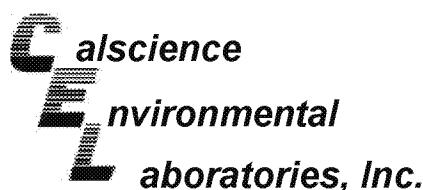
Page 9 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-06-1427-9-A	06/15/09 15:45	Aqueous	GC/MS OO	06/18/09	06/19/09 06:06	090618L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	290	250	5		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	16	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.2	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	1.0	1.0	1		Trichloroethene	37	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	3.2	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	2.7	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	1.0	1.0	1		Vinyl Chloride	1.4	0.50	1	
c-1,2-Dichloroethene	150	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	3.0	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	2.1	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	100	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

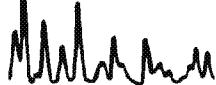
Project: South Gate / CA000677.0008.00001

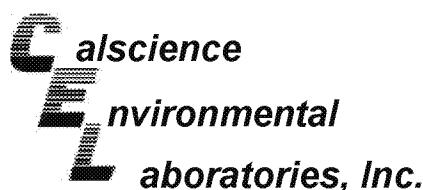
Page 10 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ Blank	09-06-1427-10-A	06/15/09 16:15	Aqueous	GC/MS OO	06/18/09	06/18/09 19:00	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	97	82-130			1,2-Dichloroethane-d4	94	75-141		
Toluene-d8	94	83-113			1,4-Bromofluorobenzene	91	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

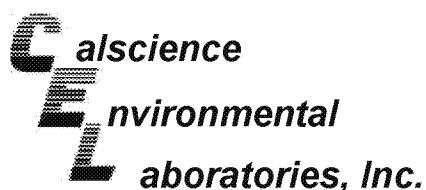
Page 11 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank	09-06-1427-11-A	06/15/09 00:00	Aqueous	GC/MS OO	06/18/09	06/18/09 19:27	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	95	82-130			1,2-Dichloroethane-d4	96	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

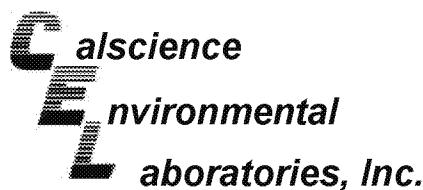
Page 12 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,881	N/A	Aqueous	GC/MS OO	06/18/09	06/18/09 16:47	090618L01

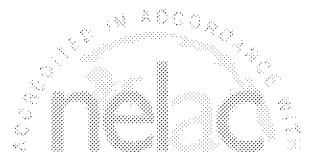
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	92	82-130			1,2-Dichloroethane-d4	89	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

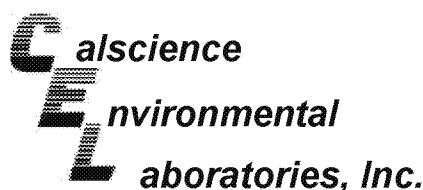
Page 13 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,894	N/A	Aqueous	GC/MS OO	06/18/09	06/19/09 02:07	090618L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	94	82-130			1,2-Dichloroethane-d4	96	75-141		
Toluene-d8	97	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

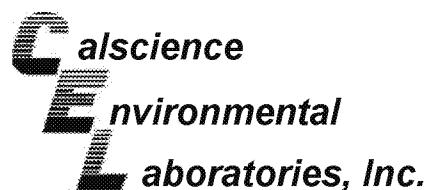
Page 14 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,900	N/A	Aqueous	GC/MS OO	06/19/09	06/19/09 13:27	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	96	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 3010A Total
Method: EPA 6010B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-10	Aqueous	ICP 5300	06/16/09	06/17/09	090616SA3

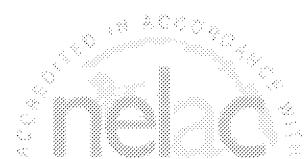
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	112	114	72-132	2	0-10	
Arsenic	114	114	80-140	0	0-11	
Barium	113	114	87-123	1	0-6	
Beryllium	109	113	89-119	3	0-8	
Cadmium	107	111	82-124	4	0-7	
Chromium	103	106	86-122	3	0-8	
Cobalt	110	113	83-125	2	0-7	
Copper	112	115	78-126	2	0-7	
Lead	107	110	84-120	2	0-7	
Molybdenum	107	111	78-126	3	0-7	
Nickel	111	111	84-120	0	0-7	
Selenium	114	117	79-127	3	0-9	
Silver	111	114	86-128	3	0-7	
Thallium	103	105	79-121	2	0-8	
Vanadium	109	112	88-118	3	0-7	
Zinc	108	113	89-131	5	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

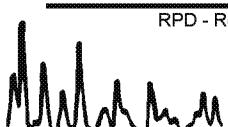
Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 7470A Total
Method: EPA 7470A

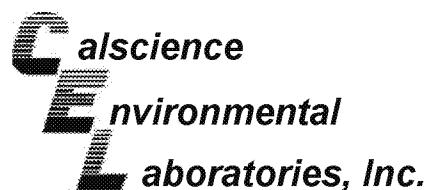
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5D(H)	Aqueous	Mercury	06/16/09	06/16/09	090616S05

Parameter	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	108	109	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1312-1	Aqueous	GC/MS OO	06/18/09	06/18/09	090618S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	96	88-118	3	0-7	
Carbon Tetrachloride	107	106	67-145	1	0-11	
Chlorobenzene	94	91	88-118	3	0-7	
1,2-Dibromoethane	95	94	70-130	2	0-30	
1,2-Dichlorobenzene	97	96	86-116	0	0-8	
1,1-Dichloroethene	95	95	70-130	1	0-25	
Ethylbenzene	97	94	70-130	3	0-30	
Toluene	99	99	87-123	0	0-8	
Trichloroethene	92	91	79-127	1	0-10	
Vinyl Chloride	82	86	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	95	96	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	84	97	36-168	15	0-45	
Diisopropyl Ether (DIPE)	100	96	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	93	104	72-126	11	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	99	72-126	3	0-12	
Ethanol	93	96	53-149	4	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1514-1	Aqueous	GC/MS OO	06/18/09	06/19/09	090618S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	105	88-118	6	0-7	
Carbon Tetrachloride	112	109	67-145	3	0-11	
Chlorobenzene	90	85	88-118	6	0-7	3
1,2-Dibromoethane	97	97	70-130	0	0-30	
1,2-Dichlorobenzene	92	92	86-116	0	0-8	
1,1-Dichloroethene	97	89	70-130	8	0-25	
Ethylbenzene	98	90	70-130	9	0-30	
Toluene	101	95	87-123	5	0-8	
Trichloroethene	92	96	79-127	4	0-10	
Vinyl Chloride	86	82	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	104	97	71-131	7	0-13	
Tert-Butyl Alcohol (TBA)	97	100	36-168	4	0-45	
Diisopropyl Ether (DIPE)	101	93	81-123	8	0-9	
Ethyl-t-Butyl Ether (ETBE)	107	102	72-126	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	110	72-126	1	0-12	
Ethanol	93	91	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/15/09
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

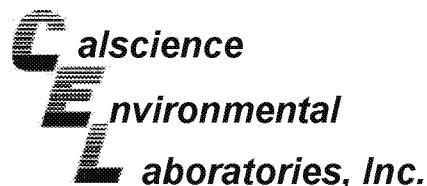
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1166-33	Aqueous	GC/MS OO	06/19/09	06/19/09	090619S01

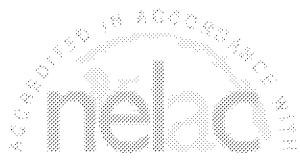
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	100	88-118	12	0-7	4
Carbon Tetrachloride	120	123	67-145	2	0-11	
Chlorobenzene	95	103	88-118	9	0-7	
1,2-Dibromoethane	101	101	70-130	1	0-30	
1,2-Dichlorobenzene	93	98	86-116	5	0-8	
1,1-Dichloroethene	91	96	70-130	5	0-25	
Ethylbenzene	106	102	70-130	4	0-30	
Toluene	103	101	87-123	2	0-8	
Trichloroethene	94	94	79-127	0	0-10	
Vinyl Chloride	81	82	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	92	94	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	96	101	36-168	5	0-45	
Diisopropyl Ether (DIPE)	90	94	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	104	95	72-126	9	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	100	72-126	9	0-12	
Ethanol	94	113	53-149	19	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
097-01-003-9,488	Aqueous	ICP 5300	06/16/09	06/17/09		090616LA3	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	100	103	80-120	73-127	2	0-20	
Arsenic	99	103	80-120	73-127	3	0-20	
Barium	110	113	80-120	73-127	3	0-20	
Beryllium	99	103	80-120	73-127	3	0-20	
Cadmium	105	107	80-120	73-127	2	0-20	
Chromium	100	102	80-120	73-127	2	0-20	
Cobalt	108	109	80-120	73-127	1	0-20	
Copper	104	106	80-120	73-127	2	0-20	
Lead	107	109	80-120	73-127	1	0-20	
Molybdenum	102	102	80-120	73-127	0	0-20	
Nickel	106	110	80-120	73-127	4	0-20	
Selenium	100	103	80-120	73-127	4	0-20	
Silver	102	104	80-120	73-127	3	0-20	
Thallium	103	106	80-120	73-127	2	0-20	
Vanadium	101	104	80-120	73-127	2	0-20	
Zinc	98	98	80-120	73-127	1	0-20	

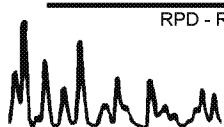
Total number of LCS compounds : 16

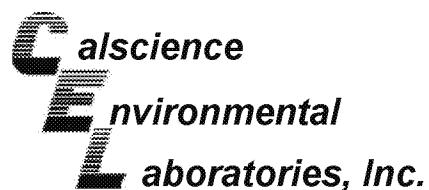
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

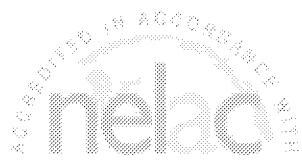
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

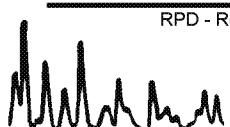
Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 3510C
Method: EPA 8015B (M)

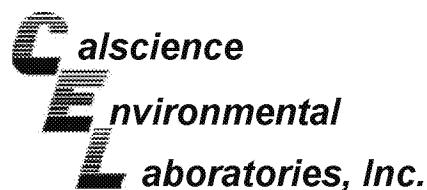
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,116	Aqueous	GC 45	06/15/09	06/16/09	090615B18

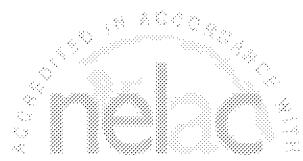
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	113	117	75-117	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

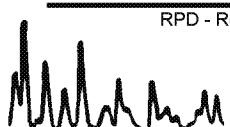
Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 7470A Total
Method: EPA 7470A

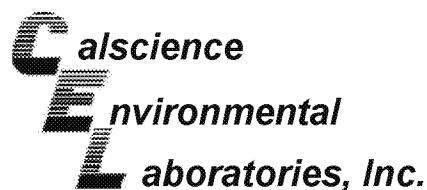
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,174	Aqueous	Mercury	06/16/09	06/16/09	090616L05

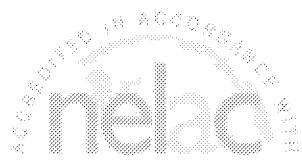
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	104	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

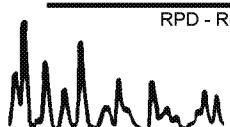
Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

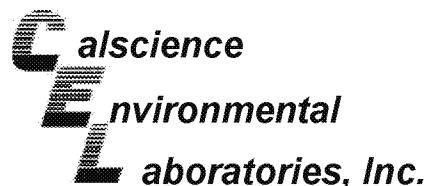
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,270	Aqueous	GC/MS AAA	06/16/09	06/20/09	090616L10D

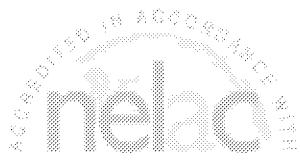
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	100	101	50-130	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,881	Aqueous	GC/MS OO	06/18/09	06/18/09		090618L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	101	84-120	78-126	6	0-8	
Carbon Tetrachloride	116	124	63-147	49-161	6	0-10	
Chlorobenzene	97	95	89-119	84-124	1	0-7	
1,2-Dibromoethane	103	97	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	95	99	89-119	84-124	4	0-9	
1,1-Dichloroethene	103	107	77-125	69-133	3	0-16	
Ethylbenzene	100	99	80-120	73-127	1	0-20	
Toluene	108	104	83-125	76-132	4	0-9	
Trichloroethene	103	102	89-119	84-124	1	0-8	
Vinyl Chloride	94	98	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	97	99	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	98	94	46-154	28-172	4	0-32	
Diisopropyl Ether (DIPE)	97	108	81-123	74-130	11	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	109	74-122	66-130	8	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	100	76-124	68-132	6	0-10	
Ethanol	97	95	60-138	47-151	2	0-32	

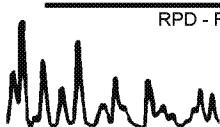
Total number of LCS compounds : 16

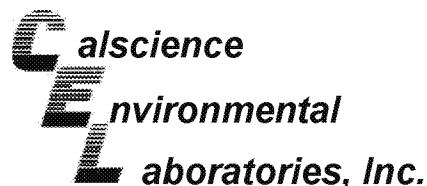
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

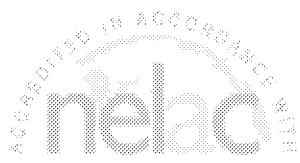
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,894	Aqueous	GC/MS OO	06/18/09	06/19/09		090618L03	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	102	110	84-120	78-126	7	0-8	
Carbon Tetrachloride	112	108	63-147	49-161	3	0-10	
Chlorobenzene	99	99	89-119	84-124	1	0-7	
1,2-Dibromoethane	101	101	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	97	102	89-119	84-124	4	0-9	
1,1-Dichloroethene	100	94	77-125	69-133	7	0-16	
Ethylbenzene	108	101	80-120	73-127	6	0-20	
Toluene	99	108	83-125	76-132	9	0-9	
Trichloroethene	104	103	89-119	84-124	0	0-8	
Vinyl Chloride	90	87	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	92	92	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	99	96	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	97	92	81-123	74-130	6	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	102	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	106	76-124	68-132	4	0-10	
Ethanol	98	96	60-138	47-151	2	0-32	

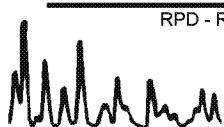
Total number of LCS compounds : 16

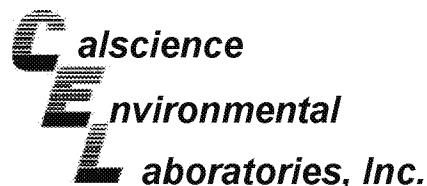
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

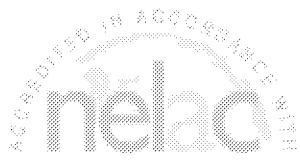
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1427
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,900	Aqueous	GC/MS OO	06/19/09	06/19/09		090619L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	98	105	84-120	78-126	7	0-8	
Carbon Tetrachloride	120	126	63-147	49-161	5	0-10	
Chlorobenzene	95	98	89-119	84-124	3	0-7	
1,2-Dibromoethane	96	102	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	99	104	89-119	84-124	5	0-9	
1,1-Dichloroethene	97	99	77-125	69-133	2	0-16	
Ethylbenzene	97	105	80-120	73-127	8	0-20	
Toluene	106	107	83-125	76-132	1	0-9	
Trichloroethene	102	121	89-119	84-124	17	0-8	X,ME
Vinyl Chloride	85	87	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	90	88	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	98	95	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	90	89	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	94	85	74-122	66-130	10	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	104	76-124	68-132	1	0-10	
Ethanol	95	97	60-138	47-151	2	0-32	

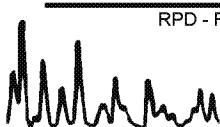
Total number of LCS compounds : 16

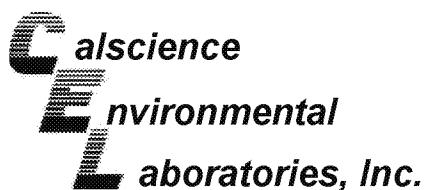
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

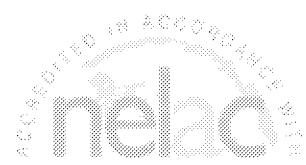
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



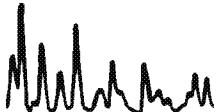


Glossary of Terms and Qualifiers



Work Order Number: 09-06-1427

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 6/15/09
Page 1 of 2

LABORATORY CLIENT: ARCADIS				CLIENT PROJECT NAME / NUMBER: Southgate CA000677.0008-0001				P.O. NO.:																
ADDRESS: 1400 N HARBOR BLVD #700				PROJECT CONTACT: GREG FROL				LAB USE ONLY 0 6 - 1 4 2 7																
CITY FULLERTON	STATE CA	ZIP 92835	SAMPLER(S): (PRINT) JESSE ESTRADA				COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT															
TEL 714278-0992	E-MAIL: ROB.GORDON@ARCADIS-US.COM	TEMP= °C																						
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD					REQUESTED ANALYSES																			
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>																								
SPECIAL INSTRUCTIONS:																								
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C8-C44)	TPH ()	BTEX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3+	1,4-DIOXANE	CHAM METALS	TPH - CC
			DATE	TIME																				
1	MW-10 ✓		6/15/09	1103	Ag	6	X														X X X	X X X	X X X	
2	MW-12 (H) ✓		6/15/09	1205	Ag	6	X														X X X	X X X	X X X	
3	MW-5D (H) ✓		6/15/09	1233	Ag	6	X														X X X	X X X	X X X	
4	MW-7D (H) ✓		6/15/09	1300	Ag	6	X														X X X	X X X	X X X	
5	MW-6D (H) ✓		6/15/09	1322	Ag	6	X														X X X	X X X	X X X	
6	MW-6S (H) ✓		6/15/09	1345	Ag	6	X														X X X	X X X	X X X	
7	MW-1 (H) ✓		6/15/09	1411	Ag	6	X														X X X	X X X	X X X	
8	MW-3 ✓		6/15/09	1502	Ag	6	X														X X X	X X X	X X X	
9	MW-4 ✓		6/15/09	1545	Ag	6	X														X X X	X X X	X X X	
10	EA BLANK ✓		6/15/09	1615	Ag	6	X														X X X	X X X	X X X	
Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature/Affiliation) <i>[Signature]</i>																		Date: <u>6/15/09</u>	Time: <u>1045</u>		
Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature/Affiliation) <i>[Signature]</i>																		Date: <u>06/15/09</u>	Time: <u>1730</u>		
Relinquished by: (Signature) <i>[Signature]</i>			Received by: (Signature/Affiliation) <i>[Signature]</i>																		Date: <u> </u>	Time: <u> </u>		

DISTRIBUTION: White with final report, Green and Yellow to Client.

Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision



Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 6/15/09
Page 2 of 2

LABORATORY CLIENT: ARCIAN'S				CLIENT PROJECT NAME / NUMBER: SOUTH GATE CIA000677.0008.00001				P.O. NO.:													
ADDRESS: 1400 N HARBOR BLVD #700				PROJECT CONTACT: 614-910-1427 JESSE ESTUANA				LAB USE ONLY 06-1427													
CITY FULLERTON	STATE CA	ZIP 92835	SAMPLER(S): (PRINT) ROB.GORRIE@ARCIANS-US.COM				COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT												
TEL 71428-0992	E-MAIL: ROB.GORRIE@ARCIANS-US.COM									TEMP= <input type="text"/> °C											
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD				REQUESTED ANALYSES																	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>																					
SPECIAL INSTRUCTIONS:																					
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ()	BTEX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3+] ()
			DATE	TIME																	
11 TRIPBLANK			6/15/09	—	AN 4		X														
Relinquished by: (Signature)					Received by: (Signature/Affiliation)																
<i>Jamie</i>					<i>plunk</i>																
Relinquished by: (Signature)					Received by: (Signature/Affiliation)																
<i>meend</i>					<i>plunk</i>																
Relinquished by: (Signature)					Received by: (Signature/Affiliation)																
<i>meend</i>					<i>plunk</i>																
DISTRIBUTION: White with final report, Green and Yellow to Client. Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.											05/01/07 Revision										

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 6/15/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.8 °C - 0.2 °C (CF) = 4.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: PL

CUSTODY SEALS INTACT:

<input type="checkbox"/> Cooler	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Initial: <u>PL</u>
<input type="checkbox"/> Sample	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present		Initial: <u>PS</u>

SAMPLE CONDITION:

Yes No N/A

Chain-Of-Custody (COC) document(s) received with samples.....

COC document(s) received complete.....

Collection date/time, matrix, and/or # of containers logged in based on sample labels.

COC not relinquished. No date relinquished. No time relinquished.

Sampler's name indicated on COC.....

Sample container label(s) consistent with COC.....

Sample container(s) intact and good condition.....

Correct containers and volume for analyses requested.....

Analyses received within holding time.....

Proper preservation noted on COC or sample container.....

Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace.....

Tedlar bag(s) free of condensation.....

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBn₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBn_a

250PB 250PBn 125PB 125PBznna 100PB 100PBn₂ _____ _____ _____

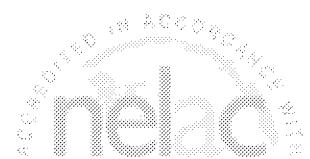
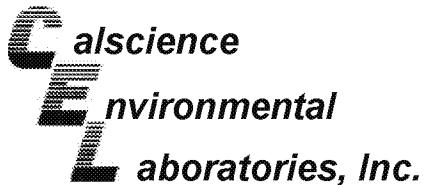
Air: Tedlar® Summa® _____ Other: _____ Checked/Labeled by: PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth)

Reviewed by: JN

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ znna: ZnAc₂+NaOH f: Field-filtered

Scanned by: PS



June 24, 2009

Greg Fiol
ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Subject: **Calscience Work Order No.: 09-06-1506**
Client Reference: **South Gate / CA000677.0008.00001**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/16/2009 and analyzed in accordance with the attached chain-of-custody.

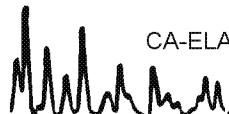
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

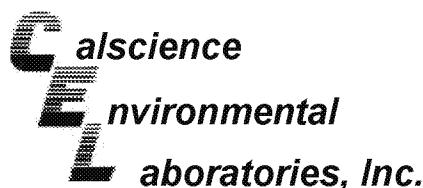
A handwritten signature in black ink, enclosed in an oval. The name "Virendra Patel" is written in cursive script.

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

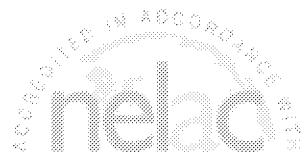


CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 1 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	09-06-1506-1-D	06/16/09 08:20	Aqueous	ICP 5300	06/17/09	06/18/09 13:34	090617LA3

Comment(s): -Mercury was analyzed on 6/17/2009 5:41:03 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0557	0.00500	1	
Barium	0.0386	0.0100	1		Nickel	0.0505	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.0150	0.00500	1	
Copper	0.0221	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

MW-5S	09-06-1506-2-D	06/16/09 09:05	Aqueous	ICP 5300	06/17/09	06/22/09 11:44	090617LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/17/2009 5:43:20 PM with batch 090617L03

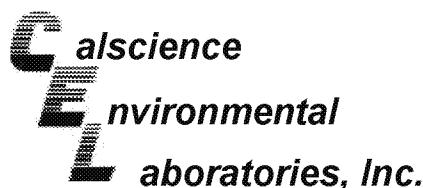
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0672	0.00500	1	
Barium	0.0638	0.0100	1		Nickel	0.0101	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00973	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

MW-5D	09-06-1506-3-D	06/16/09 10:20	Aqueous	ICP 5300	06/17/09	06/18/09 13:55	090617LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

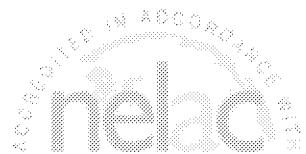
Comment(s): -Mercury was analyzed on 6/17/2009 5:45:35 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0119	0.0100	1		Molybdenum	0.0526	0.00500	1	
Barium	0.0755	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.00736	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 2 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6D	09-06-1506-4-D	06/16/09 11:35	Aqueous	ICP 5300	06/17/09	06/18/09 13:56	090617LA3

Comment(s): -Mercury was analyzed on 6/17/2009 5:47:45 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0110	0.0100	1		Molybdenum	0.0434	0.00500	1	
Barium	0.0667	0.0100	1		Nickel	0.00725	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.00662	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	0.00603	0.00500	1		Zinc	0.0340	0.0100	1	
Lead	ND	0.0100	1						

MW-12	09-06-1506-5-D	06/16/09 12:40	Aqueous	ICP 5300	06/17/09	06/18/09 13:57	090617LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/17/2009 5:54:26 PM with batch 090617L03

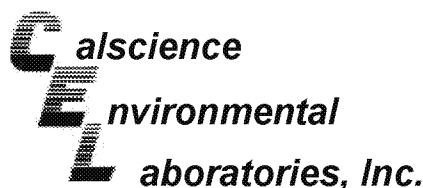
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0634	0.00500	1	
Barium	0.117	0.0100	1		Nickel	0.0692	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.00615	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

MW-8	09-06-1506-6-D	06/16/09 13:45	Aqueous	ICP 5300	06/17/09	06/18/09 13:59	090617LA3
------	----------------	----------------	---------	----------	----------	----------------	-----------

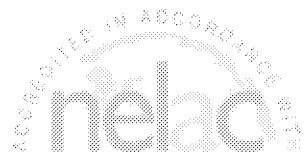
Comment(s): -Mercury was analyzed on 6/17/2009 5:56:37 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.139	0.0100	1		Molybdenum	0.0496	0.00500	1	
Barium	0.525	0.0100	1		Nickel	0.00814	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0168	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00713	0.00500	1	
Copper	0.125	0.00500	1		Zinc	0.609	0.0100	1	
Lead	0.0666	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 3 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-06-1506-7-D	06/16/09 14:32	Aqueous	ICP 5300	06/17/09	06/18/09 14:00	090617LA3

Comment(s): -Mercury was analyzed on 6/17/2009 5:58:50 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0593	0.0100	1		Molybdenum	0.0138	0.00500	1	
Barium	0.0766	0.0100	1		Nickel	0.114	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	0.0496	0.00500	1		Zinc	0.0555	0.0100	1	
Lead	0.0152	0.0100	1						

DUP 1	09-06-1506-8-D	06/16/09 14:35	Aqueous	ICP 5300	06/17/09	06/18/09 14:01	090617LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/17/2009 6:01:02 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0617	0.0100	1		Molybdenum	0.0140	0.00500	1	
Barium	0.0773	0.0100	1		Nickel	0.114	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	0.0549	0.00500	1		Zinc	0.0561	0.0100	1	
Lead	0.0154	0.0100	1						

EQ BLANK	09-06-1506-9-D	06/16/09 15:00	Aqueous	ICP 5300	06/17/09	06/18/09 14:02	090617LA3
----------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/17/2009 6:03:16 PM with batch 090617L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 4 of 4

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-04-008-4,178	N/A	Aqueous	Mercury	06/17/09	06/17/09 17:29	090617L03

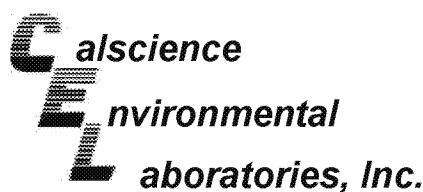
Parameter	Result	RL	DF	Qual				
Mercury	ND	0.000500	1					
Method Blank		097-01-003-9,482	N/A	Aqueous	ICP 5300	06/17/09	06/17/09 14:26	090617LA3

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	09-06-1506-1-E	06/16/09 08:20	Aqueous	GC 45	06/16/09	06/17/09 09:59	090616B05

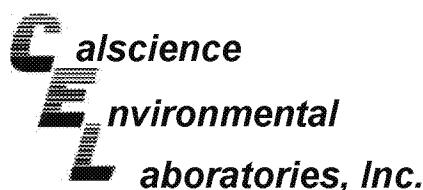
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	104	68-140							
MW-5S	09-06-1506-2-E	06/16/09 09:05	Aqueous	GC 45	06/16/09	06/17/09 10:15	090616B05		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	100	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5D	09-06-1506-3-E	06/16/09 10:20	Aqueous	GC 45	06/16/09	06/17/09 10:31	090616B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	64		1		C41-C44	ND		1	
C17-C18	16		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	105	68-140							

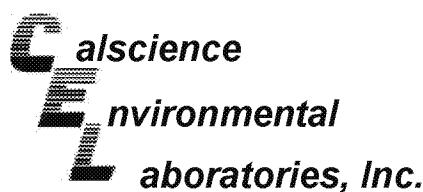
MW-6D	09-06-1506-4-E	06/16/09 11:35	Aqueous	GC 45	06/16/09	06/17/09 10:47	090616B05
-------	----------------	-------------------	---------	-------	----------	-------------------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	105	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	09-06-1506-5-E	06/16/09 12:40	Aqueous	GC 45	06/16/09	06/17/09 11:02	090616B05

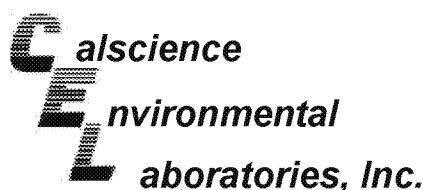
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	98	68-140							
MW-8	09-06-1506-6-E	06/16/09 13:45	Aqueous	GC 45	06/16/09	06/17/09 11:18	090616B05		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	50		1	
C7	ND		1		C23-C24	130		1	
C8	ND		1		C25-C28	290		1	
C9-C10	ND		1		C29-C32	910		1	
C11-C12	ND		1		C33-C36	610		1	
C13-C14	ND		1		C37-C40	580		1	
C15-C16	1.8		1		C41-C44	450		1	
C17-C18	33		1		C6-C44 Total	3100	500		1
C19-C20	4.4		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	97	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-06-1506-7-E	06/16/09 14:32	Aqueous	GC 45	06/16/09	06/17/09 11:33	090616B05

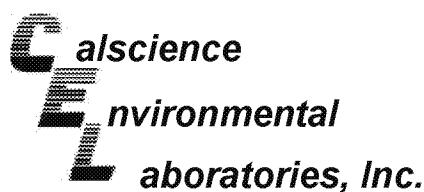
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	97	68-140							
DUP 1	09-06-1506-8-E	06/16/09 14:35	Aqueous	GC 45	06/16/09	06/17/09 11:49	090616B05		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	97	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

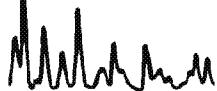
Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1506-9-E	06/16/09 15:00	Aqueous	GC 45	06/16/09	06/17/09 12:05	090616B05

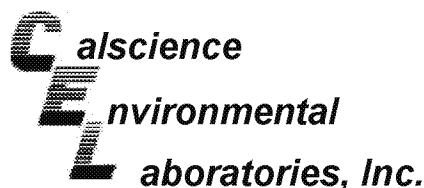
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	99	68-140							
Method Blank					099-12-308-1,118	N/A	Aqueous	GC 45	06/16/09
									06/17/09 07:37
									090616B05

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	500	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	96	68-140		

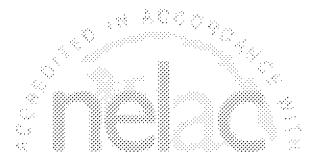
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/16/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1506
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	09-06-1506-1-F	06/16/09 08:20	Aqueous	GC/MS GG	06/17/09	06/20/09 17:54	090617L02D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	2.3	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	90	56-123			

MW-5S	09-06-1506-2-F	06/16/09 09:05	Aqueous	GC/MS GG	06/17/09	06/20/09 18:18	090617L02D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	90	56-123			

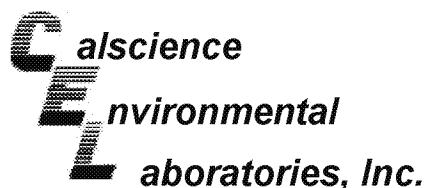
MW-5D	09-06-1506-3-F	06/16/09 10:20	Aqueous	GC/MS GG	06/17/09	06/20/09 18:42	090617L02D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	21	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	94	56-123			

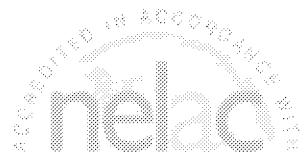
MW-6D	09-06-1506-4-F	06/16/09 11:35	Aqueous	GC/MS GG	06/17/09	06/20/09 19:06	090617L02D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	93	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/16/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1506
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	09-06-1506-5-F	06/16/09 12:40	Aqueous	GC/MS GG	06/17/09	06/20/09 19:29	090617L02D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	97	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	95	56-123			

MW-8	09-06-1506-6-F	06/16/09 13:45	Aqueous	GC/MS GG	06/17/09	06/20/09 19:53	090617L02D
------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	94	56-123			

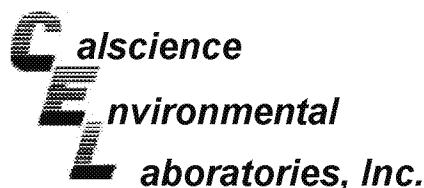
MW-2	09-06-1506-7-F	06/16/09 14:32	Aqueous	GC/MS GG	06/17/09	06/20/09 20:17	090617L02D
------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	25	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	93	56-123			

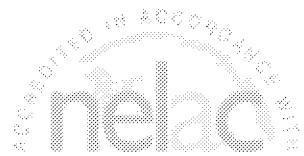
DUP 1	09-06-1506-8-F	06/16/09 14:35	Aqueous	GC/MS GG	06/17/09	06/20/09 20:41	090617L02D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	25	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	101	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/16/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1506
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 3 of 3

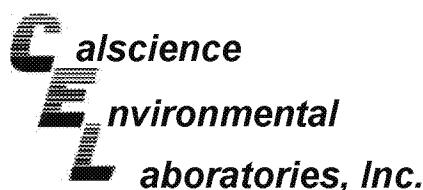
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1506-9-F	06/16/09 15:00	Aqueous	GC/MS GG	06/17/09	06/20/09 21:06	090617L02D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	105	56-123			

Method Blank	099-09-004-1,271	N/A	Aqueous	GC/MS GG	06/17/09	06/20/09 16:41	090617L02D
--------------	------------------	-----	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	99	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

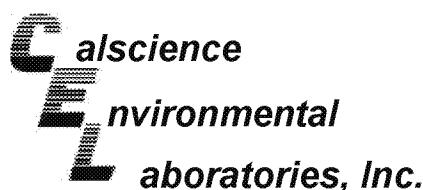
Project: South Gate / CA000677.0008.00001

Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	09-06-1506-1-B	06/16/09 08:20	Aqueous	GC/MS QQ	06/19/09	06/19/09 21:02	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	4.1	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	27	1.0	1		Trichloroethene	14	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	4.0	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.6	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	1.1	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	14	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	102	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	100	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

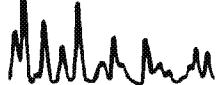
Project: South Gate / CA000677.0008.00001

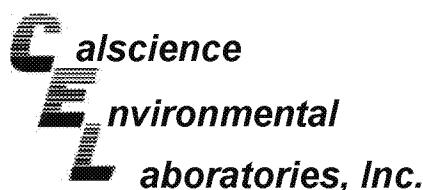
Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5S	09-06-1506-2-B	06/16/09 09:05	Aqueous	GC/MS QQ	06/19/09	06/19/09 22:43	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.4	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	140	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.8	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	1.5	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	19	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.1	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	103	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	101	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

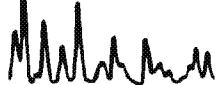
Project: South Gate / CA000677.0008.00001

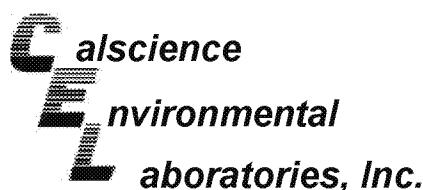
Page 3 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5D	09-06-1506-3-B	06/16/09 10:20	Aqueous	GC/MS QQ	06/19/09	06/19/09 23:09	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	1.1	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.65	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	0.68	0.50	1	
c-1,2-Dichloroethene	89	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.5	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

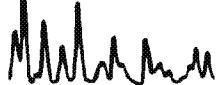
Project: South Gate / CA000677.0008.00001

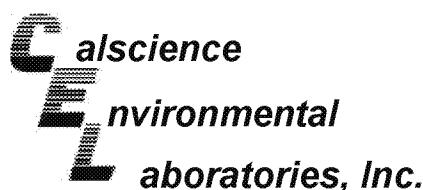
Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6D	09-06-1506-4-B	06/16/09 11:35	Aqueous	GC/MS QQ	06/19/09	06/19/09 23:34	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	13	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	100	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	09-06-1506-5-B	06/16/09 12:40	Aqueous	GC/MS QQ	06/19/09	06/20/09 00:00	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	5.7	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.53	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	13	1.0	1		Vinyl Chloride	0.92	0.50	1	
c-1,2-Dichloroethene	7.0	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	105	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

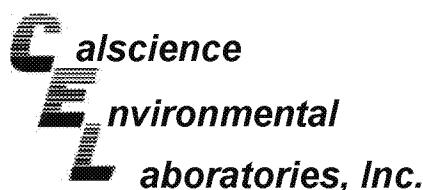
Project: South Gate / CA000677.0008.00001

Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	09-06-1506-6-B	06/16/09 13:45	Aqueous	GC/MS QQ	06/19/09	06/20/09 00:26	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	5.5	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	7.2	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	4.4	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	106	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

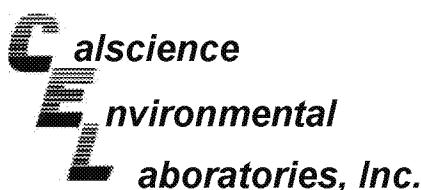
Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-06-1506-7-B	06/16/09 14:32	Aqueous	GC/MS QQ	06/19/09	06/20/09 00:51	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	1.7	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	2.2	1.0	1		Trichloroethene	7.0	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	6.2	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	10	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	1.2	1.0	1		Vinyl Chloride	53	0.50	1	
c-1,2-Dichloroethene	170	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	4.6	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	2.5	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

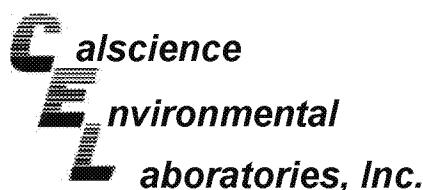
Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP 1	09-06-1506-8-B	06/16/09 14:35	Aqueous	GC/MS QQ	06/19/09	06/20/09 01:16	090619L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	1.5	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	1.9	1.0	1		Trichloroethene	5.6	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	5.0	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	9.5	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	46	0.50	1	
c-1,2-Dichloroethene	160	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	3.9	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	2.2	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	101	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

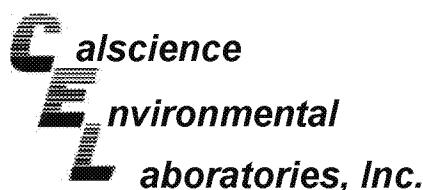
Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1506-9-A	06/16/09 15:00	Aqueous	GC/MS QQ	06/18/09	06/18/09 22:54	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

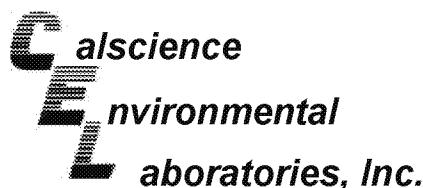
Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	09-06-1506-10-A	06/16/09 00:00	Aqueous	GC/MS QQ	06/18/09	06/18/09 23:20	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	107	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

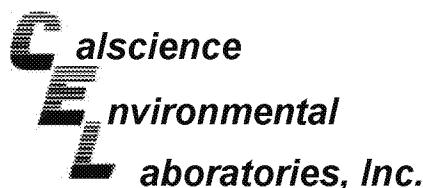
Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,883	N/A	Aqueous	GC/MS QQ	06/18/09	06/18/09 14:01	090618L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	100	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

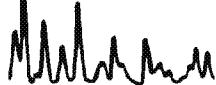
Project: South Gate / CA000677.0008.00001

Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,904	N/A	Aqueous	GC/MS QQ	06/19/09	06/19/09 20:36	090619L01

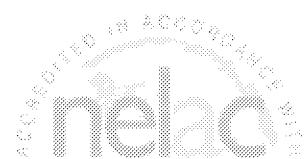
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	105	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 3010A Total
Method: EPA 6010B

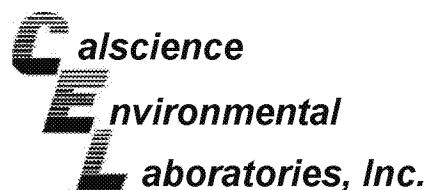
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-9	Aqueous	ICP 5300	06/17/09	06/18/09	090617SA3

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	104	106	72-132	2	0-10	
Arsenic	107	107	80-140	0	0-11	
Barium	105	106	87-123	0	0-6	
Beryllium	101	101	89-119	0	0-8	
Cadmium	102	103	82-124	1	0-7	
Chromium	97	98	86-122	1	0-8	
Cobalt	104	108	83-125	3	0-7	
Copper	107	107	78-126	0	0-7	
Lead	101	104	84-120	2	0-7	
Molybdenum	104	108	78-126	3	0-7	
Nickel	101	101	84-120	0	0-7	
Selenium	102	101	79-127	1	0-9	
Silver	105	105	86-128	0	0-7	
Thallium	97	100	79-121	3	0-8	
Vanadium	103	103	88-118	0	0-7	
Zinc	108	109	89-131	1	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

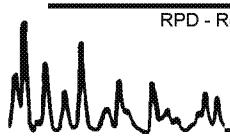
Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 7470A Total
Method: EPA 7470A

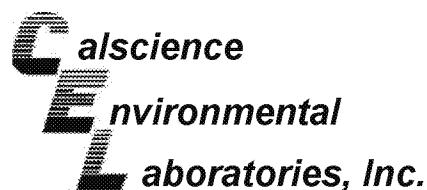
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5S	Aqueous	Mercury	06/17/09	06/17/09	090617S03

Parameter	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	98	96	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1209-12	Aqueous	GC/MS QQ	06/18/09	06/18/09	090618S01

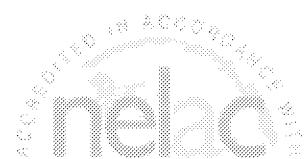
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	105	88-118	4	0-7	
Carbon Tetrachloride	112	110	67-145	1	0-11	
Chlorobenzene	109	108	88-118	1	0-7	
1,2-Dibromoethane	109	112	70-130	2	0-30	
1,2-Dichlorobenzene	109	110	86-116	1	0-8	
1,1-Dichloroethene	119	109	70-130	9	0-25	
Ethylbenzene	112	109	70-130	2	0-30	
Toluene	111	109	87-123	2	0-8	
Trichloroethene	109	107	79-127	2	0-10	
Vinyl Chloride	96	95	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	114	114	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	112	116	36-168	3	0-45	
Diisopropyl Ether (DIPE)	115	113	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	117	118	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	115	115	72-126	0	0-12	
Ethanol	112	90	53-149	22	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/16/09
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B

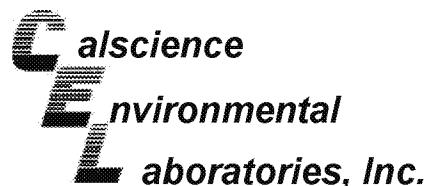
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-9	Aqueous	GC/MS QQ	06/19/09	06/19/09	090619S01

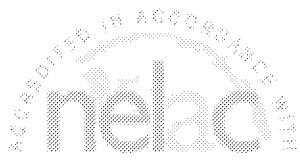
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	95	88-118	1	0-7	
Carbon Tetrachloride	96	93	67-145	3	0-11	
Chlorobenzene	96	94	88-118	2	0-7	
1,2-Dibromoethane	99	98	70-130	1	0-30	
1,2-Dichlorobenzene	84	89	86-116	3	0-8	3
1,1-Dichloroethene	98	89	70-130	10	0-25	
Ethylbenzene	97	94	70-130	3	0-30	
Toluene	97	95	87-123	2	0-8	
Trichloroethene	89	87	79-127	1	0-10	
Vinyl Chloride	95	90	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	102	103	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	90	90	36-168	1	0-45	
Diisopropyl Ether (DIPE)	104	102	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	102	103	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	102	72-126	1	0-12	
Ethanol	85	90	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
097-01-003-9,482	Aqueous	ICP 5300	06/17/09	06/17/09		090617LA3	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	95	94	80-120	73-127	0	0-20	
Arsenic	95	93	80-120	73-127	2	0-20	
Barium	107	104	80-120	73-127	3	0-20	
Beryllium	96	94	80-120	73-127	2	0-20	
Cadmium	98	98	80-120	73-127	0	0-20	
Chromium	96	95	80-120	73-127	1	0-20	
Cobalt	103	103	80-120	73-127	0	0-20	
Copper	102	101	80-120	73-127	1	0-20	
Lead	99	98	80-120	73-127	1	0-20	
Molybdenum	92	92	80-120	73-127	0	0-20	
Nickel	101	99	80-120	73-127	1	0-20	
Selenium	92	89	80-120	73-127	3	0-20	
Silver	99	97	80-120	73-127	2	0-20	
Thallium	98	97	80-120	73-127	1	0-20	
Vanadium	98	97	80-120	73-127	1	0-20	
Zinc	94	95	80-120	73-127	1	0-20	

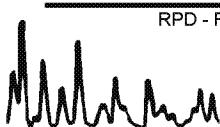
Total number of LCS compounds : 16

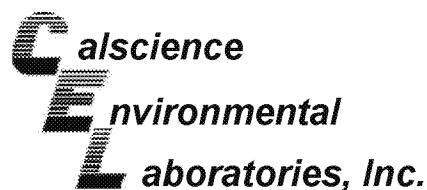
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

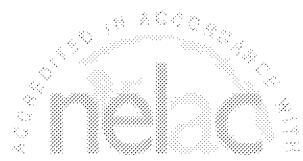
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

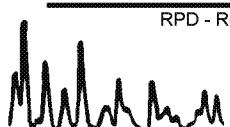
Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 3510C
Method: EPA 8015B (M)

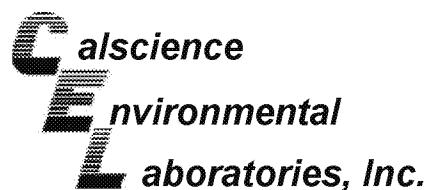
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,118	Aqueous	GC 45	06/16/09	06/17/09	090616B05

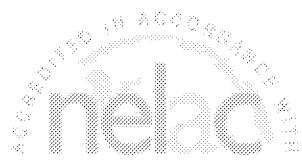
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	104	102	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

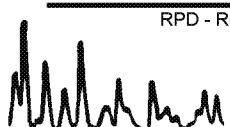
Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 7470A Total
Method: EPA 7470A

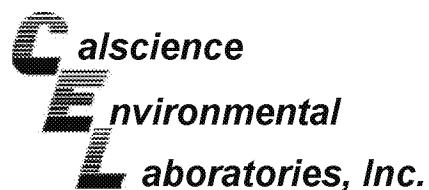
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,178	Aqueous	Mercury	06/17/09	06/17/09	090617L03

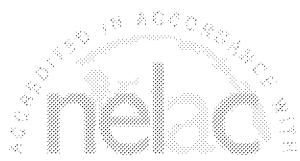
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	97	98	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

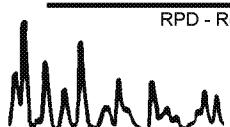
Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

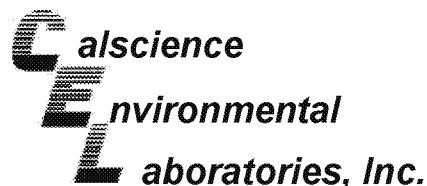
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,271	Aqueous	GC/MS GG	06/17/09	06/20/09	090617L02D

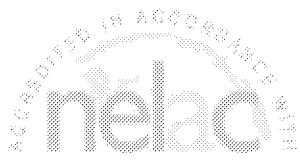
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	119	121	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,883	Aqueous	GC/MS QQ	06/18/09	06/18/09		090618L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	109	107	84-120	78-126	2	0-8	
Carbon Tetrachloride	111	109	63-147	49-161	1	0-10	
Chlorobenzene	108	106	89-119	84-124	1	0-7	
1,2-Dibromoethane	112	112	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	110	110	89-119	84-124	0	0-9	
1,1-Dichloroethene	112	113	77-125	69-133	1	0-16	
Ethylbenzene	112	110	80-120	73-127	2	0-20	
Toluene	111	110	83-125	76-132	1	0-9	
Trichloroethene	113	109	89-119	84-124	3	0-8	
Vinyl Chloride	94	93	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	114	115	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	111	108	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	110	111	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	113	117	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	115	118	76-124	68-132	3	0-10	
Ethanol	88	97	60-138	47-151	10	0-32	

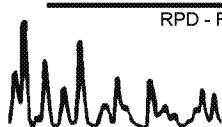
Total number of LCS compounds : 16

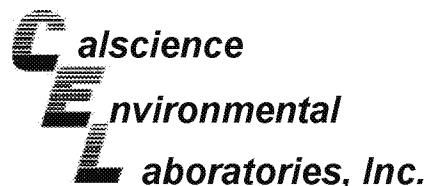
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

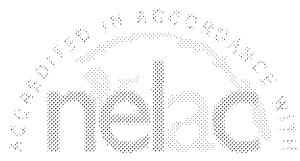
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1506
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,904	Aqueous	GC/MS QQ	06/19/09	06/19/09		090619L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	95	84-120	78-126	1	0-8	
Carbon Tetrachloride	101	96	63-147	49-161	5	0-10	
Chlorobenzene	95	95	89-119	84-124	0	0-7	
1,2-Dibromoethane	95	99	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	93	95	89-119	84-124	2	0-9	
1,1-Dichloroethene	94	100	77-125	69-133	6	0-16	
Ethylbenzene	98	97	80-120	73-127	1	0-20	
Toluene	97	96	83-125	76-132	0	0-9	
Trichloroethene	100	98	89-119	84-124	1	0-8	
Vinyl Chloride	109	103	63-135	51-147	6	0-13	
Methyl-t-Butyl Ether (MTBE)	99	110	82-118	76-124	10	0-13	
Tert-Butyl Alcohol (TBA)	94	95	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	100	101	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	100	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	102	76-124	68-132	4	0-10	
Ethanol	96	76	60-138	47-151	23	0-32	

Total number of LCS compounds : 16

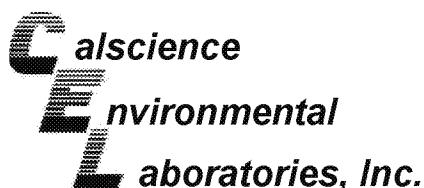
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

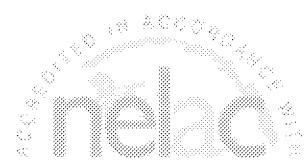
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



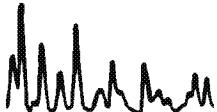


Glossary of Terms and Qualifiers



Work Order Number: 09-06-1506

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 6/16/09

Page 1 of 1

LABORATORY CLIENT: ARCADIS						CLIENT PROJECT NAME / NUMBER: <u>South Gate/</u> <u>CA000677.0008.0001</u>						P.O. NO.:												
ADDRESS: 1400 N HARBOR BLVD #700						PROJECT CONTACT: GREG FIORE						LAB USE ONLY												
CITY FULLERTON		STATE CA	ZIP 92835	SAMPLER(S): (PRINT) JESSE ESTRADA		COELT LOG CODE		COOLER RECEIPT		TEMP= <u> </u> °C														
TEL: 714278-0992 E-MAIL: ROB.GORRIE@ARCADIS-US.COM																								
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD						REQUESTED ANALYSES																		
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>																								
SPECIAL INSTRUCTIONS:																								
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (l)	BTEX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218-6]	VOCS (TO-14A) or (TO-15)	TPH (g) [TO-3] +	14-Dioxane	Chloro Metals	TPH - CC
			DATE	TIME			TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH (l)	BTEX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218-6]	VOCS (TO-14A) or (TO-15)	TPH (g) [TO-3] +	14-Dioxane	Chloro Metals	TPH - CC
1	MW-9 ✓✓		6/16/09 0820	AQ	6		X											X X X	X X X	X X X				
2	MW-5S ✓✓		6/16/09 0905	AQ	6		X											X X X	X X X	X X X				
3	MW-5D ✓✓		6/16/09 1020	AQ	6		X											X X X	X X X	X X X				
4	MW-6D ✓✓		6/16/09 1135	AQ	6		X											X X X	X X X	X X X				
5	MW-12 ✓✓		6/16/09 1240	AQ	6		X											X X X	X X X	X X X				
6	MW-8 ✓✓		6/16/09 1345	AQ	6		X											X X X	X X X	X X X				
7	MW-2 ✓✓		6/16/09 1432	AQ	6		X											X X X	X X X	X X X				
8	DOP 1 ✓✓		6/16/09 1435	AQ	6		X											X X X	X X X	X X X				
9	EX BLANK ✓✓		6/16/09 1500	AQ	6		X											X X X	X X X	X X X				
10	TZP BLANK		6/16/09 —	AQ	2		X																	
Relinquished by: (Signature) <i>Jen</i>			Received by: (Signature/Affiliation) <i>John</i>															Date: <u>6/16/09</u>	Time: <u>1555</u>					
Relinquished by: (Signature) <i>John</i>			Received by: (Signature/Affiliation) <i>John</i>															Date: <u>6/16/09</u>	Time: <u>1630</u>					
Relinquished by: (Signature) <i>John</i>			Received by: (Signature/Affiliation) <i>John</i>															Date: <u> </u>	Time: <u> </u>					

DISTRIBUTION: White with final report, Green and Yellow to Client.

Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

SAMPLE RECEIPT FORMCooler 1 of 1CLIENT: ARCADISDATE: 6/16/09**TEMPERATURE:** (Criteria: 0.0 °C – 6.0 °C, not frozen)Temperature 4.4 °C - 0.2 °C (CF) = 4.2 °C Blank Sample Sample(s) outside temperature criteria (PM/APM contacted by: _____). Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling. Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: Air Filter Metals Only PCBs OnlyInitial: pk**CUSTODY SEALS INTACT:**

<input type="checkbox"/> Cooler	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Initial: <u>AC</u>
<input type="checkbox"/> Sample	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Initial: <u>AM</u>

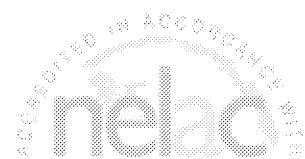
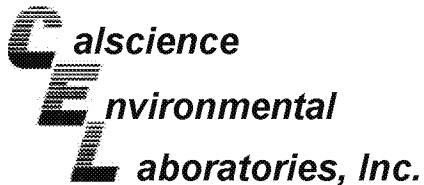
SAMPLE CONDITION:

Yes No N/A

Chain-Of-Custody (COC) document(s) received with samples..... COC document(s) received complete..... Collection date/time, matrix, and/or # of containers logged in based on sample labels. COC not relinquished. No date relinquished. No time relinquished.Sampler's name indicated on COC..... Sample container label(s) consistent with COC..... Sample container(s) intact and good condition..... Correct containers and volume for analyses requested..... Analyses received within holding time..... Proper preservation noted on COC or sample container..... Unpreserved vials received for Volatiles analysisVolatile analysis container(s) free of headspace..... Tedlar bag(s) free of condensation..... **CONTAINER TYPE:**Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs 500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna 250PB 250PBn 125PB 125PBznna 100PB 100PBna₂ _____ _____ Air: Tedlar® Summa® _____ Other: _____ Checked/Labeled by: AM

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth)

Reviewed by: PSPreservative: h: HCl n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ znna: ZnAc₂+NaOH f: Field-filteredScanned by: AM



June 24, 2009

Greg Fiol
ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Subject: **Calscience Work Order No.: 09-06-1586**
Client Reference: **South Gate / CA000677.0008.00001**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/17/2009 and analyzed in accordance with the attached chain-of-custody.

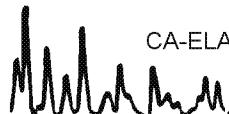
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

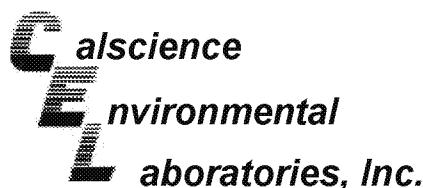
A handwritten signature in black ink, enclosed in an oval. The name "Virendra Patel" is written in cursive script.

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

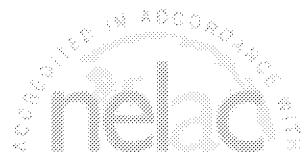


CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 1 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7S	09-06-1586-1-D	06/17/09 08:25	Aqueous	ICP 5300	06/18/09	06/19/09 15:40	090618LA3

Comment(s): -Mercury was analyzed on 6/18/2009 7:06:46 PM with batch 090618L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.0488	0.00500	1	
Barium	0.0168	0.0100	1		Nickel	0.448	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	0.0156	0.0150	1	
Cadmium	0.0240	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0246	0.00500	1		Vanadium	0.0141	0.00500	1	
Copper	0.503	0.00500	1		Zinc	0.0178	0.0100	1	
Lead	ND	0.0100	1						

MW-11	09-06-1586-2-D	06/17/09 09:10	Aqueous	ICP 5300	06/18/09	06/19/09 15:57	090618LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/18/2009 7:08:58 PM with batch 090618L02

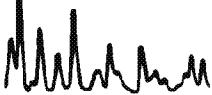
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0725	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	1.10	0.0100	1		Nickel	0.464	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	0.150	0.0150	1	
Cadmium	0.285	0.00500	1		Silver	0.0145	0.00500	1	
Chromium	0.107	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0655	0.00500	1		Vanadium	0.446	0.00500	1	
Copper	1.45	0.00500	1		Zinc	0.813	0.0100	1	
Lead	0.413	0.0100	1						

MW-7D	09-06-1586-3-D	06/17/09 10:10	Aqueous	ICP 5300	06/18/09	06/19/09 15:56	090618LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

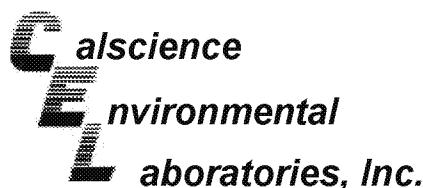
Comment(s): -Mercury was analyzed on 6/18/2009 7:11:11 PM with batch 090618L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0341	0.0100	1		Molybdenum	0.0573	0.00500	1	
Barium	0.0220	0.0100	1		Nickel	0.309	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.00591	0.00500	1		Vanadium	ND	0.00500	1	
Copper	0.0369	0.00500	1		Zinc	0.0217	0.0100	1	
Lead	ND	0.0100	1						

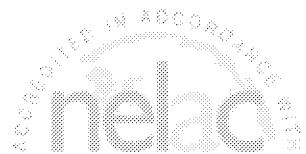
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 2 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-06-1586-4-D	06/17/09 11:07	Aqueous	ICP 5300	06/18/09	06/19/09 15:59	090618LA3

Comment(s): -Mercury was analyzed on 6/18/2009 7:13:25 PM with batch 090618L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	1.29	0.0100	1		Molybdenum	0.0351	0.00500	1	
Barium	0.426	0.0100	1		Nickel	0.265	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0210	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.00555	0.00500	1		Vanadium	0.00810	0.00500	1	
Copper	0.0974	0.00500	1		Zinc	0.578	0.0100	1	
Lead	0.0299	0.0100	1						

MW-6S	09-06-1586-5-D	06/17/09 12:02	Aqueous	ICP 5300	06/18/09	06/19/09 16:00	090618LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

Comment(s): -Mercury was analyzed on 6/18/2009 7:15:39 PM with batch 090618L02

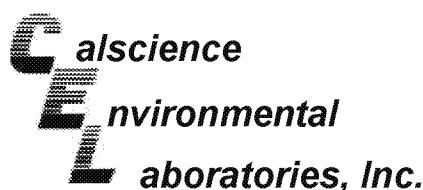
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	2.47	0.0100	1		Molybdenum	0.0414	0.00500	1	
Barium	0.152	0.0100	1		Nickel	0.685	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.00852	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0512	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0324	0.00500	1		Vanadium	0.0251	0.00500	1	
Copper	0.351	0.00500	1		Zinc	0.655	0.0100	1	
Lead	0.0316	0.0100	1						

DUP 2	09-06-1586-6-D	06/17/09 12:05	Aqueous	ICP 5300	06/18/09	06/19/09 16:02	090618LA3
-------	----------------	----------------	---------	----------	----------	----------------	-----------

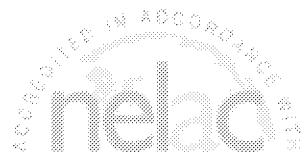
Comment(s): -Mercury was analyzed on 6/18/2009 7:22:23 PM with batch 090618L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	2.40	0.0100	1		Molybdenum	0.0412	0.00500	1	
Barium	0.134	0.0100	1		Nickel	0.709	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	0.00909	0.00500	1		Silver	ND	0.00500	1	
Chromium	0.0532	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	0.0345	0.00500	1		Vanadium	0.0265	0.00500	1	
Copper	0.374	0.00500	1		Zinc	0.640	0.0100	1	
Lead	0.0299	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: South Gate / CA000677.0008.00001

Page 3 of 3

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1586-7-D	06/17/09 12:50	Aqueous	ICP 5300	06/18/09	06/19/09 16:03	090618LA3

Comment(s): -Mercury was analyzed on 6/18/2009 7:24:38 PM with batch 090618L02

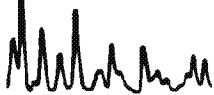
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	099-04-008-4,180	N/A	Aqueous	Mercury	06/18/09	06/18/09	18:55	090618L02
--------------	------------------	-----	---------	---------	----------	----------	-------	-----------

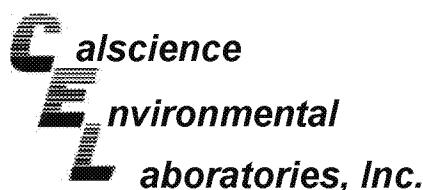
Parameter	Result	RL	DF	Qual				
Mercury	ND	0.000500	1					
Method Blank	097-01-003-9,494	N/A	Aqueous	ICP 5300	06/18/09	06/19/09 15:36	090618LA3	

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7S	09-06-1586-1-E	06/17/09 08:25	Aqueous	GC 45	06/18/09	06/19/09 01:48	090618B04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	33		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						

Surrogates: REC (%) Control Qual

Decachlorobiphenyl 95 68-140

MW-11	09-06-1586-2-E	06/17/09 09:10	Aqueous	GC 45	06/18/09	06/19/09 02:04	090618B04
-------	----------------	----------------	---------	-------	----------	----------------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						

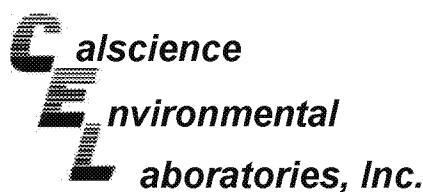
Surrogates: REC (%) Control Qual

Decachlorobiphenyl 102 68-140

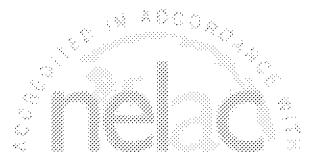
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7D	09-06-1586-3-E	06/17/09 10:10	Aqueous	GC 45	06/18/09	06/19/09 02:19	090618B04

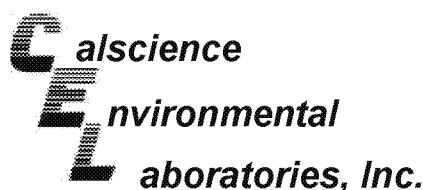
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	100		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	95	68-140							
MW-1	09-06-1586-4-E	06/17/09 11:07	Aqueous	GC 45	06/18/09	06/19/09 02:35	090618B04		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	92	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

Page 3 of 4

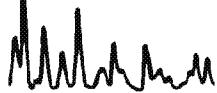
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6S	09-06-1586-5-E	06/17/09 12:02	Aqueous	GC 45	06/18/09	06/19/09 02:51	090618B04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	30		1	
C7	27		1		C23-C24	21		1	
C8	6.2		1		C25-C28	19		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	41		1		C37-C40	ND		1	
C15-C16	27		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total		ND	500	1
C19-C20	190		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	100	68-140							

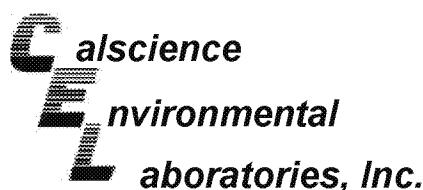
DUP 2	09-06-1586-6-E	06/17/09 12:05	Aqueous	GC 45	06/18/09	06/19/09 03:07	090618B04
-------	----------------	----------------	---------	-------	----------	----------------	-----------

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	67		1	
C7	31		1		C23-C24	42		1	
C8	6.7		1		C25-C28	26		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	14		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	41		1		C41-C44	ND		1	
C17-C18	87		1		C6-C44 Total		ND	500	1
C19-C20	95		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	102	68-140							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: South Gate / CA000677.0008.00001

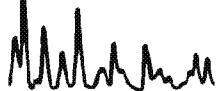
Page 4 of 4

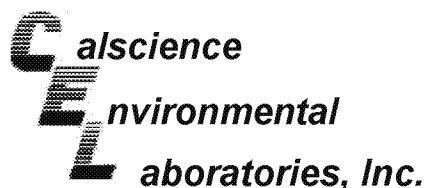
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1586-7-E	06/17/09 12:50	Aqueous	GC 45	06/18/09	06/19/09 03:22	090618B04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND		1		C21-C22	ND		1	
C7	ND		1		C23-C24	ND		1	
C8	ND		1		C25-C28	ND		1	
C9-C10	ND		1		C29-C32	ND		1	
C11-C12	ND		1		C33-C36	ND		1	
C13-C14	ND		1		C37-C40	ND		1	
C15-C16	ND		1		C41-C44	ND		1	
C17-C18	ND		1		C6-C44 Total	ND	500		1
C19-C20	ND		1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Decachlorobiphenyl	102	68-140							
Method Blank					099-12-308-1,121	N/A	Aqueous	GC 45	06/18/09
									06/19/09 01:01
									090618B04

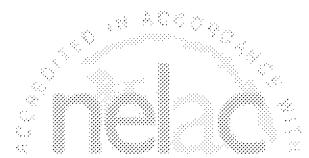
Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	500	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	92	68-140		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc. Date Received: 06/17/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1586
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7S	09-06-1586-1-F	06/17/09 08:25	Aqueous	GC/MS GG	06/18/09	06/23/09 11:33	090618L10D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	8.5	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	107	56-123			

MW-11	09-06-1586-2-F	06/17/09 09:10	Aqueous	GC/MS GG	06/18/09	06/23/09 11:57	090618L10D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	3.4	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	90	56-123			

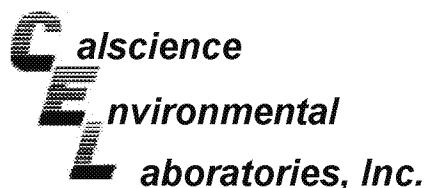
MW-7D	09-06-1586-3-F	06/17/09 10:10	Aqueous	GC/MS GG	06/18/09	06/23/09 12:45	090618L10D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	28	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	105	56-123			

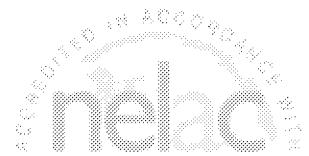
MW-1	09-06-1586-4-F	06/17/09 11:07	Aqueous	GC/MS GG	06/18/09	06/23/09 13:33	090618L10D
------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	3.4	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	107	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc. Date Received: 06/17/09
 1400 North Harbor Blvd., Suite 700 Work Order No: 09-06-1586
 Fullerton, CA 92835-4127 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: South Gate / CA000677.0008.00001

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6S	09-06-1586-5-F	06/17/09 12:02	Aqueous	GC/MS GG	06/18/09	06/23/09 13:57	090618L10D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	4.2	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	92	56-123			

DUP 2	09-06-1586-6-F	06/17/09 12:05	Aqueous	GC/MS GG	06/18/09	06/23/09 14:21	090618L10D
-------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	4.4	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	67	56-123			

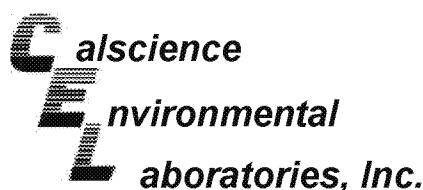
EQ BLANK	09-06-1586-7-F	06/17/09 12:50	Aqueous	GC/MS GG	06/18/09	06/23/09 11:09	090618L10D
----------	----------------	----------------	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	115	56-123			

Method Blank	099-09-004-1,272	N/A	Aqueous	GC/MS GG	06/18/09	06/20/09 23:30	090618L10D
--------------	------------------	-----	---------	----------	----------	----------------	------------

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u> REC (%) Control Limits Qual					
Nitrobenzene-d5	100	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

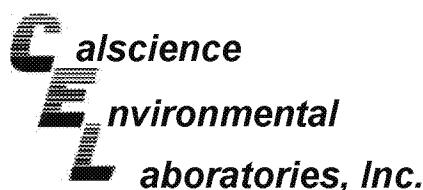
Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7S	09-06-1586-1-A	06/17/09 08:25	Aqueous	GC/MS QQ	06/20/09	06/20/09 20:36	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	100	2		1,3-Dichloropropane	ND	2.0	2	
Benzene	1.0	1.0	2		2,2-Dichloropropane	ND	2.0	2	
Bromobenzene	ND	2.0	2		1,1-Dichloropropene	ND	2.0	2	
Bromochloromethane	ND	2.0	2		c-1,3-Dichloropropene	ND	1.0	2	
Bromodichloromethane	ND	2.0	2		t-1,3-Dichloropropene	ND	1.0	2	
Bromoform	ND	2.0	2		Ethylbenzene	ND	2.0	2	
Bromomethane	ND	20	2		2-Hexanone	ND	20	2	
2-Butanone	ND	20	2		Isopropylbenzene	ND	2.0	2	
n-Butylbenzene	ND	2.0	2		p-Isopropyltoluene	ND	2.0	2	
sec-Butylbenzene	ND	2.0	2		Methylene Chloride	ND	20	2	
tert-Butylbenzene	ND	2.0	2		4-Methyl-2-Pentanone	ND	20	2	
Carbon Disulfide	ND	20	2		Naphthalene	ND	20	2	
Carbon Tetrachloride	ND	1.0	2		n-Propylbenzene	ND	2.0	2	
Chlorobenzene	ND	2.0	2		Styrene	ND	2.0	2	
Chloroethane	ND	10	2		1,1,1,2-Tetrachloroethane	ND	2.0	2	
Chloroform	27	2.0	2		1,1,2,2-Tetrachloroethane	ND	2.0	2	
Chloromethane	ND	20	2		Tetrachloroethene	37	2.0	2	
2-Chlorotoluene	ND	2.0	2		Toluene	ND	2.0	2	
4-Chlorotoluene	ND	2.0	2		1,2,3-Trichlorobenzene	ND	2.0	2	
Dibromochloromethane	ND	2.0	2		1,2,4-Trichlorobenzene	ND	2.0	2	
1,2-Dibromo-3-Chloropropane	ND	10	2		1,1,1-Trichloroethane	ND	2.0	2	
1,2-Dibromoethane	ND	2.0	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	2	
Dibromomethane	ND	2.0	2		1,1,2-Trichloroethane	ND	2.0	2	
1,2-Dichlorobenzene	29	2.0	2		Trichloroethene	240	2.0	2	
1,3-Dichlorobenzene	ND	2.0	2		Trichlorofluoromethane	ND	20	2	
1,4-Dichlorobenzene	3.0	2.0	2		1,2,3-Trichloropropane	ND	10	2	
Dichlorodifluoromethane	ND	2.0	2		1,2,4-Trimethylbenzene	ND	2.0	2	
1,1-Dichloroethane	5.7	2.0	2		1,3,5-Trimethylbenzene	ND	2.0	2	
1,2-Dichloroethane	5.2	1.0	2		Vinyl Acetate	ND	20	2	
1,1-Dichloroethene	6.7	2.0	2		Vinyl Chloride	ND	1.0	2	
c-1,2-Dichloroethene	17	2.0	2		p/m-Xylene	ND	2.0	2	
t-1,2-Dichloroethene	ND	2.0	2		o-Xylene	ND	2.0	2	
1,2-Dichloropropane	ND	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	102	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	100	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

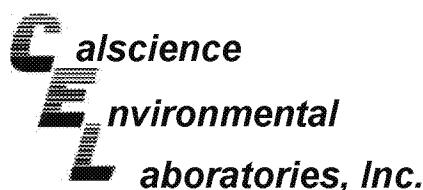
Project: South Gate / CA000677.0008.00001

Page 2 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-06-1586-2-A	06/17/09 09:10	Aqueous	GC/MS QQ	06/20/09	06/20/09 21:01	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	1.1	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.1	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	48	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.1	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	4.0	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	1.0	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	3.5	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	102	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

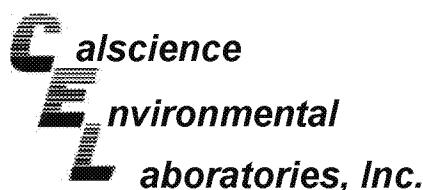
Page 3 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7D	09-06-1586-3-A	06/17/09 10:10	Aqueous	GC/MS QQ	06/20/09	06/20/09 21:27	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.72	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	1.6	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	19	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	2.8	1.0	1	
1,2-Dichlorobenzene	28	1.0	1		Trichloroethene	670	5.0	5	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	3.3	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	18	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	69	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	10	1.0	1		Vinyl Chloride	0.81	0.50	1	
c-1,2-Dichloroethene	180	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	6.7	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	15	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	104	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	105	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

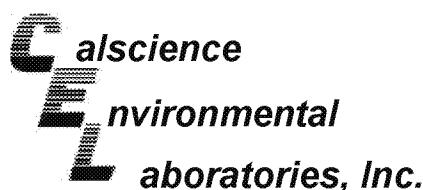
Page 4 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-06-1586-4-A	06/17/09 11:07	Aqueous	GC/MS QQ	06/20/09	06/20/09 21:52	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	100	2		1,3-Dichloropropane	ND	2.0	2	
Benzene	ND	1.0	2		2,2-Dichloropropane	ND	2.0	2	
Bromobenzene	ND	2.0	2		1,1-Dichloropropene	ND	2.0	2	
Bromochloromethane	ND	2.0	2		c-1,3-Dichloropropene	ND	1.0	2	
Bromodichloromethane	ND	2.0	2		t-1,3-Dichloropropene	ND	1.0	2	
Bromoform	ND	2.0	2		Ethylbenzene	ND	2.0	2	
Bromomethane	ND	20	2		2-Hexanone	ND	20	2	
2-Butanone	ND	20	2		Isopropylbenzene	ND	2.0	2	
n-Butylbenzene	ND	2.0	2		p-Isopropyltoluene	ND	2.0	2	
sec-Butylbenzene	ND	2.0	2		Methylene Chloride	ND	20	2	
tert-Butylbenzene	ND	2.0	2		4-Methyl-2-Pentanone	ND	20	2	
Carbon Disulfide	ND	20	2		Naphthalene	ND	20	2	
Carbon Tetrachloride	ND	1.0	2		n-Propylbenzene	ND	2.0	2	
Chlorobenzene	ND	2.0	2		Styrene	ND	2.0	2	
Chloroethane	ND	10	2		1,1,1,2-Tetrachloroethane	ND	2.0	2	
Chloroform	ND	2.0	2		1,1,2,2-Tetrachloroethane	ND	2.0	2	
Chloromethane	ND	20	2		Tetrachloroethene	ND	2.0	2	
2-Chlorotoluene	ND	2.0	2		Toluene	ND	2.0	2	
4-Chlorotoluene	ND	2.0	2		1,2,3-Trichlorobenzene	ND	2.0	2	
Dibromochloromethane	ND	2.0	2		1,2,4-Trichlorobenzene	ND	2.0	2	
1,2-Dibromo-3-Chloropropane	ND	10	2		1,1,1-Trichloroethane	ND	2.0	2	
1,2-Dibromoethane	ND	2.0	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	2	
Dibromomethane	ND	2.0	2		1,1,2-Trichloroethane	ND	2.0	2	
1,2-Dichlorobenzene	5.6	2.0	2		Trichloroethene	11	2.0	2	
1,3-Dichlorobenzene	ND	2.0	2		Trichlorofluoromethane	ND	20	2	
1,4-Dichlorobenzene	ND	2.0	2		1,2,3-Trichloropropane	ND	10	2	
Dichlorodifluoromethane	ND	2.0	2		1,2,4-Trimethylbenzene	ND	2.0	2	
1,1-Dichloroethane	ND	2.0	2		1,3,5-Trimethylbenzene	ND	2.0	2	
1,2-Dichloroethane	1.0	1.0	2		Vinyl Acetate	ND	20	2	
1,1-Dichloroethene	ND	2.0	2		Vinyl Chloride	ND	1.0	2	
c-1,2-Dichloroethene	250	2.0	2		p/m-Xylene	ND	2.0	2	
t-1,2-Dichloroethene	4.2	2.0	2		o-Xylene	ND	2.0	2	
1,2-Dichloropropane	ND	2.0	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	2	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	105	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	102	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

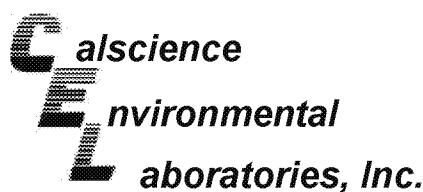
Page 5 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6S	09-06-1586-5-A	06/17/09 12:02	Aqueous	GC/MS QQ	06/20/09	06/20/09 22:17	090620L01

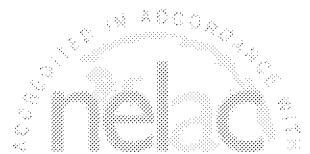
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	1.8	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	3.8	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	25	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	3.2	1.0	1		Trichloroethene	180	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	1.6	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.4	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	0.98	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	3.0	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	490	5.0	5		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	5.7	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	4.7	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	102	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

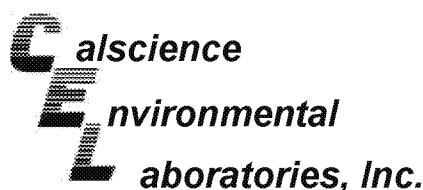
Page 6 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP 2	09-06-1586-6-A	06/17/09 12:05	Aqueous	GC/MS QQ	06/20/09	06/20/09 22:43	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	2.1	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	4.1	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	29	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	3.4	1.0	1		Trichloroethene	220	5.0	5	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	1.7	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	1.6	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	1.1	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	3.4	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	500	5.0	5		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	5.6	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	5.2	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	104	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	102	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

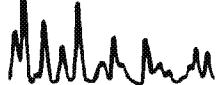
Project: South Gate / CA000677.0008.00001

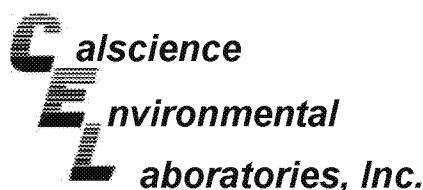
Page 7 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQ BLANK	09-06-1586-7-A	06/17/09 12:50	Aqueous	GC/MS QQ	06/20/09	06/20/09 23:08	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,11-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	101	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

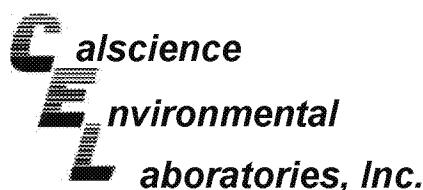
Page 8 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB	09-06-1586-8-A	06/17/09 13:00	Aqueous	GC/MS QQ	06/20/09	06/20/09 23:33	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	110	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

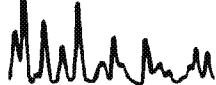
Project: South Gate / CA000677.0008.00001

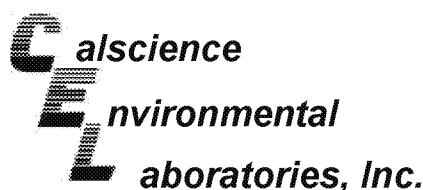
Page 9 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,911	N/A	Aqueous	GC/MS QQ	06/20/09	06/20/09 15:32	090620L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	109	82-130			1,2-Dichloroethane-d4	108	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	99	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: South Gate / CA000677.0008.00001

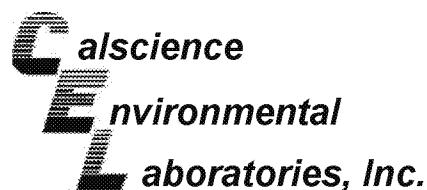
Page 10 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,924	N/A	Aqueous	GC/MS QQ	06/22/09	06/22/09 14:01	090622L01

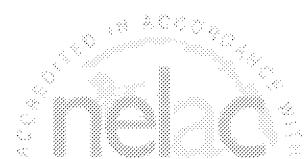
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	106	75-141		
Toluene-d8	101	83-113			1,4-Bromofluorobenzene	100	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 3010A Total
Method: EPA 6010B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7S	Aqueous	ICP 5300	06/18/09	06/19/09	090618SA3

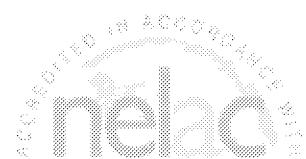
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	105	72-132	1	0-10	
Arsenic	107	110	80-140	3	0-11	
Barium	106	110	87-123	3	0-6	
Beryllium	100	104	89-119	4	0-8	
Cadmium	99	102	82-124	3	0-7	
Chromium	97	100	86-122	3	0-8	
Cobalt	102	104	83-125	1	0-7	
Copper	105	109	78-126	2	0-7	
Lead	100	102	84-120	3	0-7	
Molybdenum	102	103	78-126	0	0-7	
Nickel	97	101	84-120	2	0-7	
Selenium	100	101	79-127	1	0-9	
Silver	108	111	86-128	3	0-7	
Thallium	94	95	79-121	2	0-8	
Vanadium	102	105	88-118	3	0-7	
Zinc	104	106	89-131	2	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

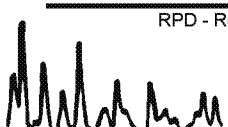
Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 7470A Total
Method: EPA 7470A

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-11	Aqueous	Mercury	06/18/09	06/18/09	090618S02

Parameter	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	87	87	57-141	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B

Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1336-1	Aqueous	GC/MS QQ	06/20/09	06/20/09	090620S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	91	88-118	1	0-7	
Carbon Tetrachloride	87	89	67-145	3	0-11	
Chlorobenzene	85	88	88-118	4	0-7	3
1,2-Dibromoethane	94	96	70-130	2	0-30	
1,2-Dichlorobenzene	85	87	86-116	2	0-8	3
1,1-Dichloroethene	95	86	70-130	9	0-25	
Ethylbenzene	81	84	70-130	1	0-30	
Toluene	88	90	87-123	2	0-8	
Trichloroethene	89	90	79-127	1	0-10	
Vinyl Chloride	88	94	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	111	100	71-131	11	0-13	
Tert-Butyl Alcohol (TBA)	98	98	36-168	1	0-45	
Diisopropyl Ether (DIPE)	102	98	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	99	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	97	72-126	1	0-12	
Ethanol	76	84	53-149	10	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: 06/17/09
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B

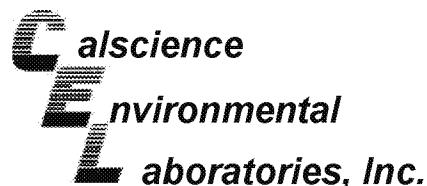
Project South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-06-1835-1	Aqueous	GC/MS QQ	06/22/09	06/22/09	090622S01

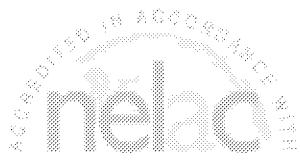
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	96	88-118	1	0-7	
Carbon Tetrachloride	105	103	67-145	2	0-11	
Chlorobenzene	95	95	88-118	0	0-7	
1,2-Dibromoethane	97	98	70-130	1	0-30	
1,2-Dichlorobenzene	94	95	86-116	1	0-8	
1,1-Dichloroethene	98	103	70-130	4	0-25	
Ethylbenzene	97	96	70-130	0	0-30	
Toluene	100	99	87-123	2	0-8	
Trichloroethene	101	100	79-127	1	0-10	
Vinyl Chloride	106	102	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	109	105	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	94	96	36-168	2	0-45	
Diisopropyl Ether (DIPE)	107	106	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	108	108	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	104	72-126	1	0-12	
Ethanol	82	92	53-149	11	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
097-01-003-9,494	Aqueous	ICP 5300	06/18/09	06/19/09		090618LA3	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	95	97	80-120	73-127	1	0-20	
Arsenic	97	98	80-120	73-127	1	0-20	
Barium	105	106	80-120	73-127	1	0-20	
Beryllium	95	97	80-120	73-127	2	0-20	
Cadmium	101	101	80-120	73-127	0	0-20	
Chromium	96	97	80-120	73-127	1	0-20	
Cobalt	105	106	80-120	73-127	1	0-20	
Copper	100	101	80-120	73-127	1	0-20	
Lead	103	104	80-120	73-127	1	0-20	
Molybdenum	100	100	80-120	73-127	0	0-20	
Nickel	100	103	80-120	73-127	3	0-20	
Selenium	93	94	80-120	73-127	1	0-20	
Silver	98	99	80-120	73-127	2	0-20	
Thallium	98	101	80-120	73-127	3	0-20	
Vanadium	97	98	80-120	73-127	1	0-20	
Zinc	101	100	80-120	73-127	1	0-20	

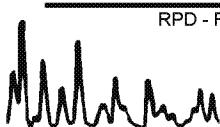
Total number of LCS compounds : 16

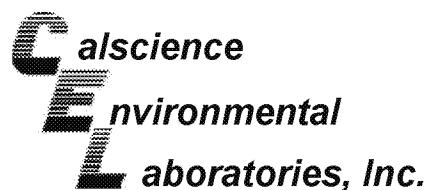
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

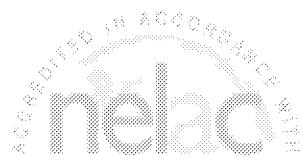
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

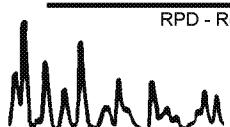
Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 3510C
Method: EPA 8015B (M)

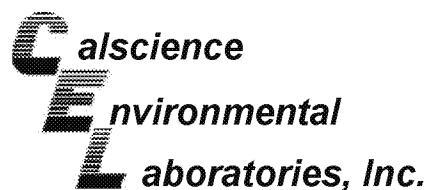
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,121	Aqueous	GC 45	06/18/09	06/19/09	090618B04

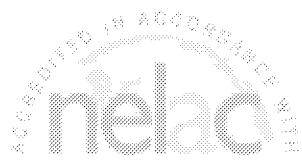
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	102	100	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

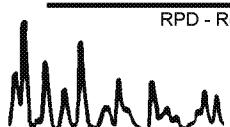
Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 7470A Total
Method: EPA 7470A

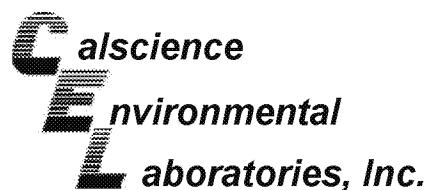
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,180	Aqueous	Mercury	06/18/09	06/18/09	090618L02

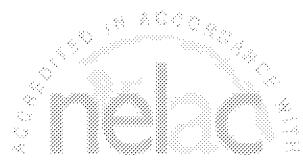
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	108	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

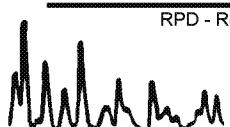
Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

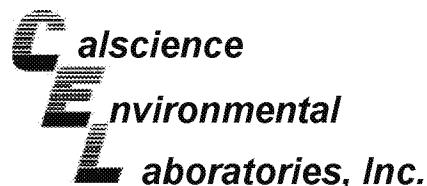
Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,272	Aqueous	GC/MS GG	06/18/09	06/20/09	090618L10D

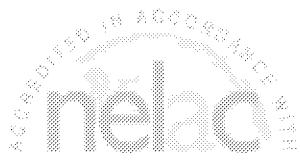
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	120	122	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,911	Aqueous	GC/MS QQ	06/20/09	06/20/09		090620L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	93	96	84-120	78-126	3	0-8	
Carbon Tetrachloride	96	98	63-147	49-161	2	0-10	
Chlorobenzene	92	94	89-119	84-124	2	0-7	
1,2-Dibromoethane	98	99	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	92	93	89-119	84-124	1	0-9	
1,1-Dichloroethene	94	94	77-125	69-133	0	0-16	
Ethylbenzene	94	95	80-120	73-127	1	0-20	
Toluene	94	95	83-125	76-132	1	0-9	
Trichloroethene	95	98	89-119	84-124	4	0-8	
Vinyl Chloride	97	109	63-135	51-147	11	0-13	
Methyl-t-Butyl Ether (MTBE)	101	102	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	86	91	46-154	28-172	6	0-32	
Diisopropyl Ether (DIPE)	103	104	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	104	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	98	76-124	68-132	0	0-10	
Ethanol	91	96	60-138	47-151	6	0-32	

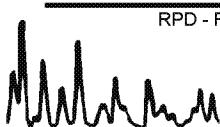
Total number of LCS compounds : 16

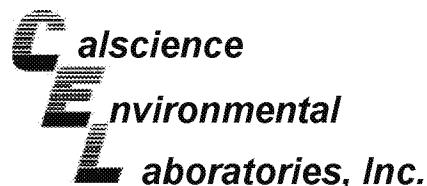
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

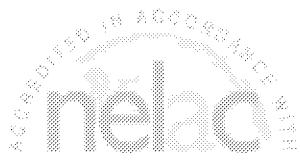
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



ARCADIS U.S., Inc.
1400 North Harbor Blvd., Suite 700
Fullerton, CA 92835-4127

Date Received: N/A
Work Order No: 09-06-1586
Preparation: EPA 5030B
Method: EPA 8260B

Project: South Gate / CA000677.0008.00001

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Batch Number	
099-10-006-29,924	Aqueous	GC/MS QQ	06/22/09	06/22/09		090622L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	97	98	84-120	78-126	2	0-8	
Carbon Tetrachloride	106	102	63-147	49-161	4	0-10	
Chlorobenzene	95	94	89-119	84-124	1	0-7	
1,2-Dibromoethane	97	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	96	89-119	84-124	1	0-9	
1,1-Dichloroethene	111	109	77-125	69-133	2	0-16	
Ethylbenzene	97	97	80-120	73-127	1	0-20	
Toluene	97	98	83-125	76-132	1	0-9	
Trichloroethene	100	104	89-119	84-124	3	0-8	
Vinyl Chloride	114	115	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	123	120	82-118	76-124	2	0-13	ME
Tert-Butyl Alcohol (TBA)	90	92	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	108	103	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	109	104	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	104	76-124	68-132	1	0-10	
Ethanol	73	69	60-138	47-151	6	0-32	

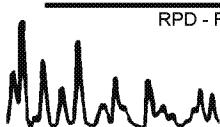
Total number of LCS compounds : 16

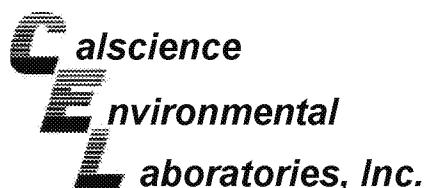
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



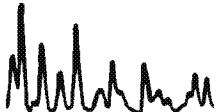


Glossary of Terms and Qualifiers



Work Order Number: 09-06-1586

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 6/17/09
Page 1 of 1

LABORATORY CLIENT: <u>ARCADIS</u>				CLIENT PROJECT NAME / NUMBER: <u>SOUTH GATE CA 0000677-0008,00001</u>				P.O. NO.:											
ADDRESS: <u>1400 N HARBOR BLVD #700</u>				PROJECT CONTACT: <u>GREG FOL</u>				LAB USE ONLY <u>0 6 - 1 5 8 6</u>											
CITY <u>FULLERTON</u>	STATE <u>CAL</u>	ZIP <u>92835</u>	SAMPLER(S): (PRINT) <u>JESSE ESTEADA</u>		COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		COOLER RECEIPT												
TEL <u>714278-0992</u>	E-MAIL: <u>ROB.GRAZIE@ARCANIS-US.COM</u>							TEMP= _____ °C											
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD				REQUESTED ANALYSES															
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>				TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ()	BTX / MTBE (8260B) or ()	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 2186]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3+] <u>14-DICRANE</u>	High - QC <u>14-DICRANE</u>
SPECIAL INSTRUCTIONS:																			
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.													
1	MW-7S		6/17/09	0825	AG	6			X								X X X		
2	MW-11		6/17/09	0910	AG	6			X							X X X			
3	MW-7D		6/17/09	1010	AG	6			X							X X X			
4	MW-1		6/17/09	1157	AG	6			X							X X X			
5	MW-6S		6/17/09	1202	AG	6			X							X X X			
6	DUP 2		6/17/09	1205	AG	6			X							X X X			
7	EQ BLANK		6/17/09	1250	AG	6			X							X X X			
8	TB		6/17/09	1300	AG	2			X										
Relinquished by: (Signature) 				Received by: (Signature/Affiliation) <u>Greg A. ea</u>				Date: <u>6/17/09</u>		Time: <u>14:04</u>									
Relinquished by: (Signature)				Received by: (Signature/Affiliation)				Date:		Time:									
Relinquished by: (Signature)				Received by: (Signature/Affiliation)				Date:		Time:									

DISTRIBUTION: White with final report, Green and Yellow to Client.

Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

SAMPLE RECEIPT FORM Cooler of

CLIENT: ARCADIS

DATE: 06/17/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.2 °C - 0.2°C (CF) = 4.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: PS

CUSTODY SEALS INTACT:

<input type="checkbox"/> Cooler	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Initial: <u>PS</u>
<input type="checkbox"/> Sample	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Initial: <u>PS</u>

SAMPLE CONDITION:

Yes No N/A

Chain-Of-Custody (COC) document(s) received with samples.....

COC document(s) received complete.....

Collection date/time, matrix, and/or # of containers logged in based on sample labels.

COC not relinquished. No date relinquished. No time relinquished.

Sampler's name indicated on COC.....

Sample container label(s) consistent with COC.....

Sample container(s) intact and good condition.....

Correct containers and volume for analyses requested.....

Analyses received within holding time.....

Proper preservation noted on COC or sample container.....

Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace.....

Tedlar bag(s) free of condensation.....

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBznna 100PB 100PBna₂ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ Checked/Labeled by: PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth)

Reviewed by: J.N.

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ znna: ZnAc₂+NaOH f: Field-filtered Scanned by: PS

ARCADIS

Appendix C

Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		1	310) 345-6714	09020901BP
5. Generator's Name and Mailing Address BRENTWOOD PACIFIC 4545 ARIONE ST 90280 SOUTH GATE CA 90280 Generator's Phone: 327) 832-5000		Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name TDR ENVIRONMENTAL SERV.		U.S. EPA ID Number CA000164327		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address LAKELAND PROCESSORS 1234 N LAKE LAND RD SANTA FE SPRINGS CA 90670 Facility's Phone: 714) 630-2307		U.S. EPA ID Number CA008383291		
9. Waste Shipping Name and Description NON-HAZARDOUS LIQUID (GROUNDFLOOR WASTE)		10. Containers	11. Total Quantity	12. Unit Wt/Vol
		No. Type		
1. NON-HAZARDOUS LIQUID (GROUNDFLOOR WASTE)		01 DF	45	G
2.				
3.				
4.				
13. Special Handling Instructions and Additional Information 95) 1 APRONAL # WATER # 171 C-12007 BILL CLEAR BLUE ENV. P.O.# BRESE-090109				
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator/Officer's Printed/Typed Name Ramon Delgado Signature Ramon Delgado Month Day Year 9 2 09				
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
Transporter Signature (for exports only):				
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Solomon Rivas Signature Solomon Rivas Month Day Year 9 2 09 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____				
17. Discrepancy 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
Manifest Reference Number:				
17b. Alternate Facility (or Generator) Facility's Phone:		U.S. EPA ID Number		
17c. Signature of Alternate Facility (or Generator)		Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name DROWAN Signature DROWAN Month Day Year 9 2 09				

ARCADIS

Appendix D

**Summary of
Groundwater Analytical
Results**

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-1						
		05/25/06	12/07/06	06/06/07	11/28/07	07/14/08	12/02/08	12/02/08 Dup
VOCs by EPA Method 8260 (ug/L)								
Acetone	12	<50	<50	<50	<50	<50	<100	<100
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<20	<20
Chloroform	130	3.9	35	6.8	2.9	<1.0	<2.0	<2.0
Naphthalene	<10	<10	<10	<10	<10	<10	<20	<20
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<20	<20
Methylene chloride	10	<10	<10	<10	<10	<10	<20	<20
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<20	<20
Benzene	<0.50	1.4	0.51	0.81	0.83	<1.0	<1.0	<1.0
1,2-Dichlorobenzene (1,2-DCB)	1.9	19	3.1	13	15	5	5	6
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	4.2	<1.0	2.7	3.1	<1.0	<2.0	<2.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,3-Trichlorobenzene	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2,4-Trichlorobenzene	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Isopropylbenzene	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Total Xylenes (p/m- and o-xylene)	56	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<20	NS
Diisopropyl ether (DIPÉ)	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<4.0	NS
Tetrachloroethene (PCE)	9.7	48	11	9.7	5.6	5.4	4.8	<2.0
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
Trichloroethene (TCE)	49	400	130	250	48	18	16	11
1,1-Dichloroethane (1,1-DCA)	1.3	4.5	1.8	2.1	2.1	<1.0	<2.0	<2.0
1,2-Dichloroethane (1,2-DCA)	1.1	4.2	1.9	2.9	2.2	<0.50	<1.0	1.0
1,1-Dichloroethene (1,1-DCE)	2.3	6.9	3	4.6	5.0	<1.0	<2.0	<2.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	130	210	110	140	330	160	180	250
trans-1,2-Dichloroethene (trans 1,2-DCE)	2.0	4.4	2.8	2.7	6.3	<2.0	3.6	4.2
Vinyl Chloride	<0.50	0.62	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
1,2-Dichloropropane (1,2-DCP)	<1.0	4	2	3.5	3.9	<2.0	<2.0	<2.0
Other Parameters								
1,4-Dioxane (µg/L)	8.4	5.2	4.7	3.8	4.8	<2.0	<2.0	3.4
TPH C6-C44 by EPA Method 8015B (ug/L)								
C6	==	==	==	ND	ND	ND	ND	ND
C7	==	53	38	66	ND	ND	ND	ND
C8	==	21	5	8.9	ND	4.6	7.4	4.6
C9-C10	==	15	8	43	ND	17	17	17
C11-C12	==	4.7	20	26	ND	67	60	67
C13-C14	==	18	55	25	ND	98	93	98
C15-C16	==	13	79	28	ND	120	120	120
C17-C18	==	19	120	40	ND	170	160	170
C19-C20	==	22	110	24	ND	190	200	190
C21-C22	==	11	100	24	ND	180	180	180
C23-C24	==	10	120	13	ND	290	260	290
C25-C28	==	3.7	220	3.1	ND	490	450.0	490
C29-C32	==	ND	180	ND	ND	410	350.0	410
C33-C36	==	ND	96	ND	ND	360	280.0	360
C37-C40	==	ND<500	28	ND	ND	370	270.0	370
C41-C44	==	==	1.9	ND	ND	190	120.0	190
C6-C44 Total	==	==	1200	<500	<500	3000	2,500	3000
Metals by EPA Method 6010B/7470A (mg/L)								
Antimony	==	<0.015	0.0162	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	==	1.7	21.2	3.19	3.73	0.99	1.18	0.99
Barium	==	0.0440	0.0507	0.0283	0.0297	0.0561	0.0684	0.0561
Beryllium	==	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	==	<0.005	0.01	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	==	0.0091	0.0227	<0.00500	0.0055	0.0578	0.0636	0.0578
Cobalt	==	0.0097	0.0245	0.0072	0.0054	0.0289	0.0342	0.0289
Copper	==	0.0162	0.1360	0.0165	0.0361	0.0982	0.1150	0.0982
Lead	==	0.0214	0.0810	<0.0100	0.0123	0.0185	0.0222	0.0185
Mercury	==	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	==	0.0455	0.0486	0.0491	0.0373	0.0239	0.0281	0.0239
Nickel	==	0.4830	0.3720	0.4930	0.3640	0.1400	0.1620	0.14
Selenium	==	0.0229	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	==	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	==	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	==	<0.005	0.00739	<0.00500	<0.00500	0.0	0.0	0.0068
Zinc	==	0.0747	0.6090	0.0581	0.1420	0.2350	0.2580	0.235
Field Measurements								
pH (Standard units)	6.62	7.09	8.22	7.72	6.60	6.75	6.75	7.29
Specific Conductance (millisiemens per centimeter)	0.421	0.768	0.642	0.750	0.790	0.170	0.170	0.653
Oxidation Reduction Potential (ORP) (millivolts)	-154.0	-91.0	-79.0	-133	-123	-120	-120	-144
Dissolved Oxygen (DO) (mg/L)	0.72	1.43	5.36	0.00	0.88	1.70	1.70	5.31
Temperature (Degrees Celsius)	27.00	24.10	25.88	24.36	31.00	22.80	22.80	27.81

Notes:
 -- Not detected
 == Not analyzed
 NS - Not Sampled

Summary of Groundwater Analytical Results - 1988-2009
 Former LA Chemical Facility

Well ID	Date	MW-2										
		5/24/2006 ¹	5/24/2006 ²	5/24/2006 ³	12/07/06	06/06/07	11/28/07	07/15/08	07/15/08 Dup	12/02/08	06/16/09	6/16/09 Dup
VOCs by EPA Method 8260 (ng/L)												
Acetone	13	13	13	<50	<50	<50	<50	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<20	<10	<10	<10
Benzene	1.1	1.1	1.0	1.0	0.7	0.6	0.62	0.62	<1.0	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	1.4	1.4	1.3	1.8	2.8	3.5	3.5	3.5	2.1	2.2	1.9	
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	1.0	1.5	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	56	10	12	<10	<10	<10	<10	<10	NS	NS
Dibromoether (DPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5	NS	NS
Tetrachloroethene (PCE)	4.1	3.9	4.0	3.3	2.5	1.3	1.6	<1.0	1.6	1.7	1.5	
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	130	130	120	110	86	87	19	20	12	7	6	
1,1-Dichloroethene (1,1-DCA)	4.4	4.6	4.6	3.3	2.7	2.6	3.0	3.0	11.0	6.2	5.0	
1,2-Dichloroethene (1,2-DCA)	11	11	12	6.2	6.6	7.3	<0.50	<0.50	20.0	10.0	9.5	
1,1-Dichloroethene (1,1-DCE)	4.0	4.0	3.9	2.9	2.2	2.3	1.9	1.7	5.9	1.2	<1.0	
cis-1,2-Dichloroethene (cis 1,2-DCE)	150	160	150	94	91	170	190	190	500	170	160	
trans-1,2-Dichloroethene (trans 1,2-DCE)	4.0	4.3	3.8	3.4	2.2	2.6	<1.0	2.7	8.6	4.6	3.9	
Vinyl Chloride	0.67	0.56	0.58	0.082	0.65	0.61	<0.50	<0.50	0.84	53.00	46.00	
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Syrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	5.3	4.8	4.8	3.4	4.6	5.1	3.6	3.4	4.2	2.5	2.2	
Other Parameters												
1,4-Dioxane (μg/L)	61	59	59	120	230	170	48	49	61	25	25	
TPH C6-C44 by EPA Method 8015B (μg/L)												
C6	—	—	—	—	—	ND	ND	ND	ND	ND	ND	
C7	—	—	—	—	ND	38	12	ND	ND	ND	ND	
C8	—	—	—	—	ND	5.1	2.3	ND	ND	ND	ND	
C9-C10	—	—	—	—	12	47	69	ND	10	13	ND	
C11-C12	—	—	—	—	57	100	70	120	110	29	ND	
C13-C14	—	—	—	—	65	96	59	110	79	37	ND	
C15-C16	—	—	—	—	78	140	100	150	100	49	ND	
C17-C18	—	—	—	—	100	140	75	170	120	73	ND	
C19-C20	—	—	—	—	63	82	60	120	78	51	ND	
C21-C22	—	—	—	—	24	55	23	70	40	16	ND	
C23-C24	—	—	—	—	12	7.8	10	32	13	9	ND	
C25-C28	—	—	—	—	4.1	13	ND	61	16	4	ND	
C29-C32	—	—	—	—	—	ND	ND	45	ND	ND	ND	
C33-C36	—	—	—	—	—	ND	ND	13	ND	ND	ND	
C37-C40	—	—	—	—	—	ND>500	ND	ND	ND	ND	ND	
C41-C44	—	—	—	—	—	ND	ND	ND	ND	ND	ND	
C6-C44 Total	—	—	—	—	—	730	<500	890	570	<500	<500	
Metals by EPA Method 6010B/7470A (mg/L)												
Antimony	—	—	—	—	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	—	—	—	—	0.128	0.0937	0.114	0.117	0.11	0.0728	0.0993	0.0617
Brium	—	—	—	—	0.0447	0.0369	0.0356	0.0376	0.0365	0.0278	0.0766	0.0773
Beryllium	—	—	—	—	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	—	—	—	—	<0.003	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	—	—	—	—	0.009	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Cobalt	—	—	—	—	<0.005	0.0114	<0.00500	<0.00500	<0.00500	0.0057	<0.00500	<0.00500
Copper	—	—	—	—	0.0206	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	0.0496	0.0549
Lead	—	—	—	—	0.0225	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	0.0152	0.0154
Mercury	—	—	—	—	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	—	—	—	—	0.0231	0.0195	0.0233	0.0140	0.0132	0.0343	0.0138	0.014
Nickel	—	—	—	—	0.348	0.352	0.381	0.385	0.374	0.197	0.114	0.114
Selenium	—	—	—	—	0.0384	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	—	—	—	—	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	—	—	—	—	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	—	—	—	—	<0.005	0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Zinc	—	—	—	—	0.0146	0.0255	0.0182	0.0197	0.0106	0.0116	0.0555	0.0561
Field Measurements												
pH (Standard units)	6.87	6.87	6.87	7.06	8.22	7.71	7.00	7.00	6.61	7.29	7.29	
Specific Conductance (millSiemens per centimeter)	0.662	0.662	0.661	6210	0.666	0.709	0.760	0.760	0.460	0.310	0.310	
Oxidation Reduction Potential (ORP) (millivolts)	-158	-131	-128	-127	-143	-157	-124	-124	-19	-150	-150	
Dissolved Oxygen (DO) (mg/L)	2.15	1.65	2.02	0.92	0.00	0.00	1.11	1.11	1.50	4.97	4.97	
Temperature (Degrees Celsius)	27.20	27.70	29.31	25.30	22.51	23.44	27.80	27.80	24.00	28.70	28.70	

Notes:

-- Not detected

— Not analyzed

ND = Not Sampled

D - Data qualified from a diluted sample</p

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW-3								
Date	5/24/2006 ¹	5/24/2006 ²	5/24/2006 ³	12/06/06	06/06/07	11/27/07	07/16/08	12/03/08	06/15/09
VOCs by EPA Method 8260 (µg/L)									
Acetone	<10	<10	34	==	<50	NS	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	==	<10	NS	<10	<10	<10
Chloroform	3.1	3.5	8.1	==	1.3	NS	2.3	<1.0	<1.0
Naphthalene	<10	<10	<10	==	<10	NS	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	==	<10	NS	<10	<10	<10
Methylene chloride	<10	<10	<10	==	<10	NS	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	==	<10	NS	<10	<10	<10
Benzene	2.7	<0.50	<0.50	==	<0.50	NS	<0.50	<0.50	1
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Dibenzene	2.3	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Toluene	10	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	<1.0	<1.0	<1.0	==	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	==	<10	NS	<10	<10	NS
Ditertiary ether (DTE)	<2.0	<2.0	<2.0	==	<2.0	NS	<2.0	<2.0	NS
Tetrachloroethene (PCE)	7.0	6.0	6.1	==	6.3	NS	2.1	13	5.8
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
Trichloroethene (TCE)	56	48	54	==	27	NS	27	150	63
1,1-Dichloroethane (1,1-DCA)	1.7	1.6	2	==	1.2	NS	1.8	1.0	8.3
1,2-Dichloroethane (1,2-DCA)	1.1	1.1	1	==	<0.50	NS	<0.50	<0.50	6.6
1,1-Dichloroethene (1,1-DCE)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	5.7
cis-1,2-Dichloroethene (cis 1,2-DCE)	76	60	91	==	23	NS	55	45	620
trans-1,2-Dichloroethene (trans 1,2-DCE)	2.0	<1.0	<1.0	==	<1.0	NS	1.0	<1.0	6.4
Vinyl Chloride	<0.50	<0.50	<0.50	==	<0.50	NS	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	==	<0.50	NS	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	==	<1.0	NS	<1.0	<1.0	3
Other Parameters (mg/L)									
1,4-Dioxane (µg/L)	26	24	23	==	4.8	NS	9.2	<2.0	16
TPH C6-C44 by EPA Method 8015B (ng/L)									
C6	==	==	==	==	==	NS	ND	8.9	ND
C7	==	==	==	==	==	ND	ND	73.0	ND
C8	==	==	==	==	==	ND	ND	20.0	ND
C9-C10	==	==	==	==	==	4.0	ND	30.0	ND
C11-C12	==	==	==	==	==	ND	ND	2.9	ND
C13-C14	==	==	==	==	==	11	NS	ND	ND
C15-C16	==	==	==	==	==	15	NS	ND	ND
C17-C18	==	==	==	==	==	20	NS	ND	ND
C19-C20	==	==	==	==	==	33	NS	ND	ND
C21-C22	==	==	==	==	==	28	NS	ND	ND
C23-C24	==	==	==	==	==	22	NS	ND	ND
C25-C28	==	==	==	==	==	13	NS	ND	ND
C29-C32	==	==	==	==	==	33	NS	ND	ND
C33-C36	==	==	==	==	==	32	NS	ND	ND
C37-C40	==	==	==	==	==	19	NS	ND	ND
C41-C44	==	==	==	==	==	3.2	NS	ND	ND
C6-C44 Total	==	==	==	==	==	ND	NS	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	==	==	==	==	<0.015	NS	<0.0150	<0.0150	<0.0150
Arsenic	==	==	==	==	<0.010	NS	<0.0100	0.0	0.019
Banum	==	==	==	==	0.0633	NS	0.120	0.169	0.17
Beryllium	==	==	==	==	<0.001	NS	<0.00100	<0.00100	<0.00100
Cadmium	==	==	==	==	<0.005	NS	<0.00300	<0.00500	<0.00500
Chromium	==	==	==	==	0.0187	NS	<0.00500	0.0	0.0103
Cobalt	==	==	==	==	0.0171	NS	<0.00500	<0.00500	0.0186
Copper	==	==	==	==	0.0217	NS	0.0257	0.0636	0.114
Lead	==	==	==	==	<0.010	NS	<0.0100	<0.0100	0.0145
Mercury	==	==	==	==	<0.0005	NS	<0.000500	<0.000500	<0.000500
Molybdenum	==	==	==	==	0.0118	NS	0.00538	0.00750	0.115
Nickel	==	==	==	==	0.166	NS	0.191	0.031	0.507
Selenium	==	==	==	==	<0.015	NS	<0.0150	<0.0150	<0.0150
Silver	==	==	==	==	<0.005	NS	<0.00500	<0.00500	<0.00500
Thallium	==	==	==	==	<0.015	NS	<0.0150	<0.0150	<0.0150
Vanadium	==	==	==	==	<0.005	NS	<0.00500	0.0	0.00445
Zinc	==	==	==	==	0.0574	NS	0.0453	0.1830	0.217
Field Measurements									
pH (Standard units)	7.07	7.08	7.07	==	8.32	NS	7.00	6.94	7.38
Specific Conductance (milliSiemens per centimeter)	0.471	0.473	0.447	==	0.450	NS	0.510	56.000	0.433
Oxidation Reduction Potential (ORP) (millivolts)	68	85	98	==	87	NS	43.0	-55.0	-103.0
Dissolved Oxygen (DO) (mg/L)	2.41	4.42	5.69	==	4.93	NS	1.04	2.70	6.54
Temperature (Degrees Celsius)	21.82	23.17	23.67	==	22.32	NS	26.50	21.10	23.24

Notes:

-- Not detected

== Not analyzed

µg/L - Milligrams per liter

µg/L - Micrograms per liter

1 - sampled at depth of 78 ft

2 - sampled at depth of 73 ft

3 - sampled at depth of 63 ft

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-4						
		05/24/06	12/07/06	06/06/07	11/28/07	07/16/08	12/03/08	06/15/09
VOCs by EPA Method 8260 (µg/L)								
Acetone	54	<50	<50	<50	<50	<50	<50	290
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	2.8	2.8	33	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl 1,2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	0.95	1.0	<0.50	0.76	0.60	0.54	<0.50	
1,2-Dichlorobenzene (1,2-DCB)	3.3	4.2	2.1	3.1	2.1	1.9	1.0	
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-Dichlorobenzene (1,4-DCB)	2.5	3.2	1.5	2.0	1.5	1.7	<1.0	
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total Xylenes (p-m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methyl-Tert-butyl Ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<10	NS
Diisopropyl ether (Dipe)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	6.3	7.8	4.8	1.6	1.8	1.8	2.2	
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichloroethene (TCE)	97	110	68	11	10	13	37	
1,1-Dichloroethane (1,1-DCA)	1.2	1.2	<1.0	<1.0	1.1	1.9	3.2	
1,2-Dichloroethane (1,2-DCA)	1.8	1.4	0.7	1.1	1.1	<0.50	2.7	
1,1-Dichloroethene (1,1-DCE)	3.4	2.6	1.5	1.9	<1.0	<1.0	1.0	
cis-1,2-Dichloroethene (cis 1,2-DCE)	49	72	41	110	88	110	150	
trans-1,2-Dichloroethene (trans 1,2-DCE)	3.7	5.6	2.8	4.1	2.5	2.7	3.0	
Vinyl Chloride	<0.50	<0.50	<0.50	1.0	<0.50	4.4	1.4	
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane (1,2-DCP)	2.4	2.0	<1.0	1.1	<1.0	1.6	2	
Other Parameters (mg/L)								
1,4-Dioxane (µg/L)	20	46	5	61	77	50	19	
TPH C6-C44 by EPA Method 8015B (µg/L)								
C6	==	==	==	ND	ND	21.0	ND	
C7	==	ND	31	ND	ND	46.0	12.0	
C8	==	ND	9	4.3	ND	16.0	ND	
C9-C10	==	15	15	59	ND	50	220.0	
C11-C12	==	66	78	100	ND	56	1,900.0	
C13-C14	==	74	66	80	ND	50	750.0	
C15-C16	==	100	110	100	ND	54	350.0	
C17-C18	==	86	120	110	ND	63	1,600.0	
C19-C20	==	77	100	54	ND	30	100.0	
C21-C22	==	23	90	25	ND	11	76.0	
C23-C24	==	14	110	9.3	ND	10.0	32.0	
C25-C28	==	4	130	3.3	ND	20.0	ND	
C29-C32	==	ND	100	ND	ND	ND	ND	
C33-C36	==	ND	160	ND	ND	ND	ND	
C37-C40	==	ND<500	190	ND	ND	ND	ND	
C41-C44	==	==	130	ND	ND	ND	ND	
C6-C44 Total	==	==	1,400	550	<500	<500	5,100	
Metals by EPA Method 6010B-7470A (mg/L)								
Antimony	==	<0.015	0.0277	<0.0150	<0.0150	<0.0150	0.0234	
Arsenic	==	0.0270	0.0335	0.03220	<0.0100	0.04090	0.0971	
Barium	==	0.0197	0.0284	0.0175	0.0177	0.0275	0.0911	
Beryllium	==	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	
Cadmium	==	<0.005	0.0128	<0.00500	0.01100	0.00513	<0.00500	
Chromium	==	0.0135	0.0095	<0.00500	<0.00500	0.02320	0.0133	
Cobalt	==	0.0207	0.0300	0.01480	0.00894	0.00694	<0.00500	
Copper	==	0.1620	0.1540	0.1080	0.0302	0.1180	0.319	
Lead	==	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	0.0589
Mercury	==	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	0.000898	
Molybdenum	==	0.0211	0.0157	0.0204	0.0120	0.0132	0.235	
Nickel	==	1.150	0.702	1.030	0.836	0.752	0.292	
Selenium	==	0.0287	<0.0150	<0.0150	<0.0150	<0.0150	0.17	
Silver	==	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	
Thallium	==	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	
Vanadium	==	0.0087	0.0068	0.00659	0.00679	0.00645	0.00841	
Zinc	==	0.0584	0.4000	1.4800	0.0822	0.5640	2.96	
Field Measurements								
pH (Standard units)	12.32	6.89	8.80	8.06	7.20	6.76	10.57	
Specific Conductance (millisiemens per centimeter)	1.68	0.924	0.690	0.919	0.870	0.810	0.762	
Oxidation Reduction Potential (ORP) (millivolts)	-147	-62	-61	-127	-105	-165	-311	
Dissolved Oxygen (DO) (mg/L)	2.47	0.84	0.97	2.91	0.87	1.70	6.20	
Temperature (Degrees Celsius)	23.98	23.4	22.17	22.27	26.70	20.90	22.51	

Notes:

-- Not detected

== Not analyzed

J = Data qualified as estimated

E = Data qualified as estimated

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW-5S						
	05/23/06	12/07/06	06/04/07	11/28/07	07/15/08	12/02/08	06/16/09
VOCs by EPA Method 8260 (µg/L)							
Acetone	<20	<100	<100	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<20	<20	<20	<10	<10	<10	<10
Chloroform	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<20	<20	<20	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<20	<20	<20	<10	<10	<10	<10
Methylene chloride	<20	<20	<20	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<20	<20	<20	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Tri methylbenzene (1,2,4-TMB)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Tri methylbenzene (1,3,5-TMB)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Toluene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<20	<20	<20	<10	<10	<10	NS
Diisopropyl Ether (DIPE)	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	4.2	6.7	5	4.3	4.5	4.2	2.4
1,1,1-Trichloroethane (1,1,1-TCA)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	200	200	170	150	160	140	140
1,1-Dichloroethane (1,1-DCA)	2	2.2	<2.0	1.6	1.6	1.8	1.8
1,2-Dichloroethane (1,2-DCA)	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene (1,1-DCE)	2.4	2.6	3	2.1	1.3	1.8	1.5
cis-1,2-Dichloroethene (cis 1,2-DCE)	15	18	16	13	16	18	19
trans-1,2-Dichloroethene (trans 1,2-DCE)	<2.0	<2.0	<2.0	1.1	<1.0	<1.0	1.1
Vinyl Chloride	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	1
Carbon Tetrachloride	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50
Styrene	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)							
1,4-Dioxane (µg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TPH C6-C44 by EPA Method 8015B (ng/L)							
C6	=	=	=	ND	ND	ND	ND
C7	=	ND	57	40	ND	36	ND
C8	=	ND	2	2.2	ND	ND	ND
C9-C10	=	ND	12	ND	ND	ND	ND
C11-C12	=	ND	39	ND	ND	ND	ND
C13-C14	=	ND	25	ND	ND	ND	ND
C15-C16	=	ND	29	ND	ND	ND	ND
C17-C18	=	ND	28	ND	ND	ND	ND
C19-C20	=	ND	10	ND	ND	ND	ND
C21-C22	=	ND	8	ND	ND	ND	ND
C23-C24	=	ND	6	ND	ND	ND	ND
C25-C28	=	ND	14	ND	ND	ND	ND
C29-C32	=	ND	ND	ND	ND	ND	ND
C33-C36	=	ND	ND	ND	ND	ND	ND
C37-C40	=	=	=	ND	ND	ND	ND
C41-C44	=	=	=	ND	ND	ND	ND
C6-C44 Total	=	=	=	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)							
Antimony	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	0.0159	<0.010	0.0118	0.0105	0.0185	<0.0100
Barium	=	0.0205	0.0252	0.0208	0.0358	0.0539	0.0638
Beryllium	=	<0.001	<0.001	<0.0100	<0.0100	<0.0100	<0.0100
Cadmium	=	<0.005	<0.005	<0.0050	<0.0050	<0.00300	<0.0050
Chromium	=	<0.005	0.0170	0.00663	<0.0050	0.01410	<0.0050
Cobalt	=	<0.005	0.0141	<0.0050	<0.0050	<0.0050	<0.0050
Copper	=	<0.005	0.0053	0.00522	<0.0050	<0.0050	<0.0050
Lead	=	0.0106	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	<0.005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum	=	0.0709	0.0671	0.0620	0.0688	0.0493	0.0672
Nickel	=	0.0082	0.0196	0.0109	0.0109	0.0162	0.0101
Selenium	=	0.0445	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	0.0095	0.0124	0.00985	0.01100	0.01210	0.00973
Zinc	=	0.0286	0.0397	0.0141	0.0336	0.0217	<0.0100
Field Measurements							
pH (Standard units)	7.94	7.25	8.14	7.83	7.20	6.82	7.33
Specific Conductance (millisiemens per centimeter)	0.105	0.186	0.181	0.186	0.190	0.180	0.182
Oxidation Reduction Potential (ORP) (millivolts)	100	44	70.0	83.0	91.0	39.0	88.0
Dissolved Oxygen (DO) (mg/L)	3.10	3.14	3.89	3.41	7.38	4.10	6.20
Temperature (Degrees Celsius)	24.67	24.50	24.28	23.11	25.30	20.70	23.37

Notes:

-- Not detected

--- Not analyzed

NS - Not Sampled

* - Holding time for sample from MW-5 collected on 8/17/00 was exceeded, data qualified as rejected.

Dup = Duplicate sample

D - Data qualified from a diluted sample

mg/L - Milligrams per liter

µg/L - Micrograms per liter

J - Data qualified as estimated

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-SD					
		05/23/06	12/06/06	06/04/07	11/27/07	07/14/08	12/02/08
VOCs by EPA Method 8260 (ug/L)							
Acetone	<10	<10	<10	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	0.72	0.54	0.76	0.90	1.10	1.10
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p/m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<20	<20	<20	<10	<10	<10	NS
Diisopropyl ether (DPE)	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	9.9	3.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane (1,1-DCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (1,2-DCA)	1.1	0.99	0.70	0.70	0.60	0.71	0.65
1,1-Dichloroethene (1,1-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	1.8	38	39	50	74	82	89
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<1.0	<1.0	1.4	1.1	1.5
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	1
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)							
1,4-Dioxane (ug/L)	<2.0	3.7	4.3	7.9	12	14	21
TPH C6-C44 by EPA Method 8015B (ug/L)							
C6	=	=	=	ND	ND	ND	ND
C7	=	ND	ND	ND	ND	ND	ND
C8	=	ND	ND	ND	ND	ND	ND
C9-C10	=	ND	9	ND	ND	ND	ND
C11-C12	=	ND	9	ND	ND	ND	ND
C13-C14	=	ND	10	ND	8.9	3.7	ND
C15-C16	=	ND	75	65	55	92	64
C17-C18	=	83	30	17	20	24	16
C19-C20	=	3.5	17.0	ND	7.8	8.3	ND
C21-C22	=	ND	16	1.4	2.0	2.4	ND
C23-C24	=	ND	10	2.7	ND	ND	ND
C25-C28	=	ND	10	ND	ND	ND	ND
C29-C32	=	ND	ND	ND	ND	ND	ND
C33-C36	=	ND	ND	ND	ND	ND	ND
C37-C40	=	=	=	ND	ND	ND	ND
C41-C44	=	=	=	ND	ND	ND	ND
C6-C44 Total	=	=	=	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)							
Antimony	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	<0.010	<0.010	0.0231	0.0362	0.0247	0.0119
Barium	=	0.0843	0.0766	0.0761	0.0835	0.0799	0.0755
Beryllium	=	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	<0.005	<0.005	<0.00500	<0.00500	0.00690	0.00736
Cobalt	=	<0.005	0.0181	<0.00500	<0.00500	<0.00500	<0.00500
Copper	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Lead	=	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	0.0705	0.0623	0.0620	0.0539	0.0564	0.0526
Nickel	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Selenium	=	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Zinc	=	0.0209	0.0201	0.0163	0.0490	0.0126	<0.0100
Field Measurements							
pH (Standard units)	7.11	7.52	8.17	7.76	7.10	6.91	7.62
Specific Conductance (millisiemens per centimeter)	0.187	0.104	0.101	0.105	0.120	98.000	0.948
Oxidation Reduction Potential (ORP) (millivolts)	127	-162	-134	-169.0	-161.0	-145.0	-190.0
Dissolved Oxygen (DO) (mg/L)	2.73	6.99	0.00	0.00	1.87	2.60	5.92
Temperature (Degrees Celsius)	21.53	24.70	24.35	22.51	29.10	20.70	24.47

Notes:

-- Not detected

== Not analyzed

* - Chloroethane also detected at 1,200 ug/L.

Summary of Groundwater Analytical Results - 1988-2009

Former LA Chemical Facility

Well ID	Date	MW-6S							
		05/25/06	12/08/06	06/06/07	11/29/07	07/16/08	12/03/08	12/03/08 Dup	06/17/09
VOCs by EPA Method 8260 (ng/L)									
Acetone	12	<1,000	<1,000	<250	<500	<500	<500	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<200	<200	<50	<100	<100	<100	<10	<10
Chloroform	75	30	22	15	15	<10	<10	3.8	4.1
Naphthalene	<10	<200	<200	<50	<100	<100	<100	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<200	<200	<50	<100	<100	<100	<10	<10
Methylene chloride	<10	<200	<200	<50	<100	<100	<100	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<200	<200	<50	<100	<100	<100	<10	<10
Benzene	51	17	<10	5.8	<5.0	<5.0	<5.0	1.80	2.10
1,2-Dichlorobenzene (1,2-DCB)	7	<20	<20	6.5	23.0	<10	<10	3.2	3.4
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	3.6	<20	<20	<5.0	<10	<10	<10	1.7	1.7
Chlorobenzene	1.4	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Ethyl benzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
n-Butylbenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
s-Butylbenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
t-Butylbenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Isopropylbenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
n-Propylbenzene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Toluene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
p-Isopropyltoluene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	3.2	<20	<20	<1.0	<10	<1.0	<1.0	<1.0	<1.0
Methyl-t-tert-butyl ether (MTBE)	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<200	<200	<50	<100	<100	<100	NS	NS
Diisopropyl ether (DPE)	<2.0	<40	<40	<4.0	<20	<20	<20	NS	NS
Tetrachloroethene (PCE)	76	120.0	87.0	100	70	59	65	29	29
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	6.2	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
Trichloroethene (TCE)	390	460.0	310	290	230	210	230	220	220
1,1-Dichloroethane (1,1-DCA)	2.9	<20	<20	<5.0	<10	<10	<10	1.6	1.6
1,2-Dichloroethane (1,2-DCA)	<0.50	<10	<10	<2.5	<5.0	<5.0	<5.0	1.10	1.10
1,1-Dichloroethene (1,1-DCE)	9.9	<20	<20	<5.0	<10	<10	<10	3.4	3.4
eis-1,2-Dichloroethene (cis 1,2-DCE)	4800	2,300	1,600	990	960	710	730	500	500
trans-1,2-Dichloroethene (trans 1,2-DCE)	7	<20	<20	<5.0	<10	<10	<10	5.7	5.7
Vinyl Chloride	<0.50	<10	<10	<2.5	<5.0	<5.0	<5.0	<0.50	<0.50
Carbon Tetrachloride	<0.50	<10	<10	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50
Styrene	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,2-Dibromoethane	<1.0	<20	<20	<5.0	<10	<10	<10	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	20	<20	<20	7.1	<10	<10	<10	5.2	5.2
Other Parameters (mg/L)									
1,4-Dioxane (μg/L)	8.6	14.0	12.0	12	13	10	10	4.2	4.4
TPH C6-C44 by EPA Method 8015B (μg/L)									
C6	=	=	=	ND	ND	ND	ND	ND	ND
C7	=	ND	ND	72	ND	110	62	27	31
C8	=	ND	ND	26	ND	21	45	6	6.7
C9-C10	=	ND	9.3	77	ND	48	50	ND	ND
C11-C12	=	ND	8.6	46	ND	42	7	ND	14
C13-C14	=	ND	9.5	67	ND	62	32	41	ND
C15-C16	=	ND	75	81	ND	65	45	27	41
C17-C18	=	83	30	120	ND	90	90	ND	87
C19-C20	=	3.5	17	48	ND	50	62	190	95
C21-C22	=	ND	16	35	ND	42	34	30	67
C23-C24	=	ND	10	13	ND	17	28	21	42
C25-C28	=	ND	10	ND	ND	15.0	6.2	19	26
C29-C32	=	ND	ND	ND	ND	ND	ND	ND	ND
C33-C36	=	ND	ND	ND	ND	ND	ND	ND	ND
C37-C40	=	=	=	ND	ND	ND	ND	ND	ND
C41-C44	=	=	=	ND	ND	ND	ND	ND	ND
C6-C44 Total	=	=	=	590	<500	560	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	<0.010	<0.010	2.95	2.34	2.41	2.39	2.47	2.40
Barium	=	0.0843	0.0766	<0.0100	0.01270	0.01980	0.01970	0.1520	0.1340
Beryllium	=	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	<0.005	<0.005	<0.00500	0.00924	0.01200	0.01200	0.00852	0.00909
Chromium	=	<0.005	<0.005	0.159	0.177	0.170	0.166	0.0512	0.0532
Cobalt	=	<0.005	0.0181	0.0306	0.0208	0.0229	0.0224	0.0324	0.0345
Copper	=	<0.005	<0.005	0.411	0.313	0.397	0.406	0.351	0.374
Lead	=	<0.010	<0.010	<0.0100	<0.0100	0.02020	0.02000	0.0316	0.0299
Mercury	=	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	0.0705	0.0623	0.0268	0.0157	0.0243	0.0243	0.0414	0.0412
Nickel	=	0.0209	0.0201	0.173	0.124	0.195	0.194	0.655	0.640
Selenium	=	<0.015	<0.015	1.75	1.68	1.57	1.59	0.685	0.709
Silver	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	<0.005	<0.005	0.0433	0.0388	0.0376	0.0374	0.0251	0.0265
Zinc	=	0.0209	0.0201	0.173	0.124	0.195	0.194	0.655	0.640
Field Measurements									
pH (Standard units)	7.15	7.10	8.43	7.85	7.20	6.67	6.67	7.13	7.13
Specific Conductance (millisiemens per centimeter)	0.747	1.27	0.912	0.959	0.950	0.870	0.870	0.704	0.704
Oxidation Reduction Potential (ORP) (millivolts)	-15	-45	68.0	92.0	114.0	-16.0	-16.0	53.0	53.0
Dissolved Oxygen (DO) (mg/L)	0.59	0.94	0.78	0.00	0.82	1.50	1.50	5.19	5.19
Temperature (Degrees Celsius)	26.99	27.3	27.03	22.29	26.40	25.80	25.80	28.60	28.60

Notes:

-- Not detected

--- Not analyzed

J - Data qualified as estimated

NS - Not sampled

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW-6D						
	Date	05/25/06	12/07/06	06/06/07	11/28/07	07/15/08	12/02/08
VOCs by EPA Method 8260 (ug/L)							
Acetone	<10	<50	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	6.0	3.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	1.3	1.5	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p/m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	NS
Diisopropyl ether (DPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	76	76.0	1.9	2.5	2.5	1.8	<1.0
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	6.2	6.2	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	3.1	3.3	16	19	10	5.3	<1.0
1,1-Dichloroethane (1,1-DCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (1,2-DCA)	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene (1,1-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	28	6.4	8.9	11	9	7.9	13.0
trans-1,2-Dichloroethene (trans 1,2-DCE)	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)							
1,4-Dioxane (ug/L)	=	=	<2.0	<2.0	<2.0	<2.0	<2.0
TPH C6-C44 by EPA Method 8015B (ug/L)							
C6	=	=	=	ND	ND	ND	ND
C7	=	=	3.1	ND	ND	ND	ND
C8	=	=	2.9	ND	ND	6.1	ND
C9-C10	=	=	26	18	ND	2.8	ND
C11-C12	=	=	48	35	ND	ND	ND
C13-C14	=	=	23	26	1	13.00	ND
C15-C16	=	=	35	27	19	13	ND
C17-C18	=	=	44	33	26	25	ND
C19-C20	=	=	11	13	5	12.0	ND
C21-C22	=	=	9.5	18	ND	12.0	ND
C23-C24	=	=	6.8	9.4	ND	10.0	ND
C25-C28	=	=	10	4.6	ND	3.7	ND
C29-C32	=	=	ND	ND	ND	ND	ND
C33-C36	=	=	ND	ND	ND	ND	ND
C37-C40	=	=	ND	ND	ND	ND	ND
C41-C44	=	=	ND	ND	ND	ND	ND
C6-C44 Total	=	=	ND	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)							
Antimony	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	<0.0100	0.0279	0.0185	0.0343	0.0110
Barium	=	=	0.0721	0.0796	0.0767	0.0913	0.0667
Beryllium	=	=	<0.001	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	=	<0.005	0.00653	<0.00500	0.01270	0.00662
Cobalt	=	=	0.01360	<0.00500	<0.00500	0.00704	<0.00500
Copper	=	=	<0.005	0.01510	<0.00500	0.01400	0.00603
Lead	=	=	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	=	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	0.04470	0.0486	0.0465	0.0481	0.0434
Nickel	=	=	0.006650	0.00672	<0.00500	0.01120	0.00725
Selenium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Zinc	=	=	0.0546	0.1060	0.0250	0.0814	0.0340
Field Measurements							
pH (Standard units)	=	=	8.32	7.77	7.20	6.48	7.30
Specific Conductance (millisiemens per centimeter)	=	=	0.105	0.117	0.120	0.120	0.109
Oxidation Reduction Potential (ORP) (millivolts)	=	=	-109	-117.0	-65.0	-109.0	-94.0
Dissolved Oxygen (DO) (mg/L)	=	=	1.71	0.11	1.35	2.30	6.08
Temperature (Degrees Celsius)	=	=	21.65	22.92	26.40	25.60	25.81

Notes:

-- Not detected

= Not analyzed

J - Data qualified as estimated

NS - Not sampled

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-7S									
		5/25/2006 ¹	05/25/06	12/08/06	06/06/07	06/06/07 Dup	11/28/07	11/28/07 Dup	07/15/08	12/02/08	06/17/09
VOCs by EPA Method 8260 (µg/L)											
Acetone	13	23	<250	<250	<250	<100	<100	<100	<100	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<50	<50	<50	<20	<20	<20	<20	<10	<10
Chloroform	64	49	60	43	43	42	45	25	31	27	
Naphthalene	<10	<10	<50	<50	<50	<20	<20	<20	<20	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<50	<50	<50	<20	<20	<20	<20	<10	<10
Methylene chloride	<10	<10	<50	<50	<50	<20	<20	<20	<20	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<50	<50	<50	<20	<20	<20	<20	<10	<10
Benzene	2.0	1.4	<2.5	<2.5	<2.5	1.6	1.7	1.2	1.2	1.0	1.0
1,2-Dichlorobenzene (1,2-DCB)	71	58	110	79	81	83	83	62	38	29	
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	7.2	6.0	12	8.2	8.4	9.1	8.4	<2.0	4.7	3	
Chlorobenzene	2.9	2.3	<5.0	<5.0	<5.0	2.5	2.5	<2.0	<2.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Toluene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<50	<50	<50	<20	<20	<20	<20	NS	
Diisopropyl ether (DIE)	<2.0	<2.0	<10	<10	<10	<10	<10	<4.0	<4.0	NS	
Tetrachloroethene (PCE)	82	77	140	91	93	85	88	74	54	37	
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Trichloroethene (TCE)	420	360	490	330	330	330	350	300	260	240	
1,1-Dichloroethane (1,1-DCA)	8.5	7	11.0	8.3	8.6	8.0	8.5	6.5	6.6	5.7	
1,2-Dichloroethane (1,2-DCA)	14	10	15.0	12.0	12.0	13	14	<1.0	6	5.2	
1,1-Dichloroethene (1,1-DCE)	7.8	5.8	11.0	7.1	7.5	10	10	?	9	6.7	
cis-1,2-Dichloroethene (cis 1,2-DCE)	8.4	5.9	9.8	7.1	7.6	9.1	10	28	11	17	
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Vinyl Chloride	<0.50	<0.50	<2.5	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<2.5	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50
Styrene	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
Other Parameters (mg/L)											
1,4-Dioxane (µg/L)	13	11	11	11	10	10	10	7.8	3.1	8.5	
TPH C6-C44 by EPA Method 801SB (ng/L)											
C6	=	=	=	=	=	=	ND	ND	ND	ND	
C7	=	=	=	100	110	93	94	ND	62	33.0	
C8	=	=	=	43	31	31	30	ND	16	ND	
C9-C10	=	=	=	67	84	83	83	ND	24	ND	
C11-C12	=	=	=	38	56	18	21	90	1	ND	
C13-C14	=	=	=	56	22	22	19	39	ND	ND	
C15-C16	=	=	=	27	34	24	19	37	ND	ND	
C17-C18	=	=	=	42	51	14	14	18	ND	ND	
C19-C20	=	=	=	18	13	4	8.0	16.0	ND	ND	
C21-C22	=	=	=	9.7	13	5.7	1.1	12.0	ND	ND	
C23-C24	=	=	=	3.1	5.6	ND	ND	7.9	ND	ND	
C25-C28	=	=	=	6.8	19	ND	ND	29.0	ND	ND	
C29-C32	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C33-C36	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C37-C40	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C41-C44	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C6-C44 Total	=	=	=	ND	ND	<500	<500	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)											
Antimony	=	=	=	=	0.0176	0.0166	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	=	=	0.05830	0.01820	<0.0100	<0.0100	0.01000	0.02590	<0.0100
Barium	=	=	=	=	0.0140	0.0137	0.0129	0.0133	0.0152	0.0174	0.0168
Beryllium	=	=	=	=	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	=	=	0.0299	0.0298	0.0196	0.0204	0.0221	0.0239	0.0240
Chromium	=	=	=	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	0.00748	<0.00500
Cobalt	=	=	=	=	0.0361	0.0353	0.0245	0.0255	0.0215	0.0248	0.0246
Copper	=	=	=	=	0.460	0.453	0.455	0.470	0.438	0.464	0.503
Lead	=	=	=	=	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	=	=	=	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	=	=	0.0361	0.0366	0.0371	0.0385	0.0341	0.0431	0.0488
Nickel	=	=	=	=	0.466	0.463	0.457	0.473	0.437	0.441	0.448
Selenium	=	=	=	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	0.01560
Silver	=	=	=	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	=	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	=	=	0.0128	0.0129	0.0140	0.0140	0.0129	0.0145	0.0141
Zinc	=	=	=	=	0.0910	0.0313	0.0206	0.0233	0.0248	0.0221	0.0178
Field Measurements											
pH (Standard units)	7.10	7.10	7.40	8.53	8.53	8.06	8.06	7.40	6.83	7.41	
Specific Conductance (millisiemens per centimeter)	0.410	0.410	0.528	0.489	0.489	0.514	0.514	0.510	0.470	0.502	
Oxidation Reduction Potential (ORP) (millivolts)	93	93	13	37.0	37.0	-3.0	-3.0	65.0	-19.0	106.0	
Dissolved Oxygen (DO) (mg/L)	0.74	0.74	1.7	0.68	0.68	0.00	0.00	1.35	2.00	5.77	
Temperature (Degrees Celsius)	23.31	23.31	22.5	25.21	25.21	23.23	23.23	30.20	23.60	23.89	

-- Not detected

== Not analyzed

J - Data qualified as estimated

NS - Not sampled

1 - Duplicate sample

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-7D							
		05/25/06	12/08/06	06/06/07	11/28/07	06/17/09	07/16/08	7/16/08 Dup	12/03/08
VOCs by EPA Method 8260 (ng/L)									
Acetone	<10	<1,000	<1,000	<500	<50	<500	<100	<500	<50
2-Butanone (methyl ethyl ketone)	<10	<200	<200	<100	<10	<100	<20	<100	<10
Chloroform	3.0	<20	<20	<10	<1.0	<10	11.0	<10	<1.0
Naphthalene	<10	<200	<200	<100	<10	<100	<20	<100	<10
2-Hexanone (methyl butyl ketone)	<10	<200	<200	<100	<10	<100	<20	<100	<10
Methylene chloride	<10	<200	<200	<100	<10	<100	<20	<100	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<200	<200	<100	<10	<100	<20	<100	<10
Benzene	<0.50	<10	<10	<5.0	1	<5.0	2	<5.0	0.7
1,2-Dichlorobenzene (1,2-DCB)	270	220	180	180	28	210	230	130	28
1,3-Dichlorobenzene (1,3-DCB)	1.8	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,4-Dichlorobenzene (1,4-DCB)	38	30	24	23	3	28	27	18	3
Chlorobenzene	9.1	<20	<20	<10	2	<10	3	<10	2
Ethy lbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,2,3-Trichlorobenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,2,4-Trichlorobenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
n-Butylbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
s-Butylbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
t-Butylbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
Isopropylbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
n-Propylbenzene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
Toluene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
p-Isopropyltoluene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
Total Xylenes (p-m- and o-xylene)	<1.0	<20	<1.0	<1.0	<10	<10	<2.0	<2.0	<2.0
Methyl-tert-butyl ether (MTBE)	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
Tert-Butyl Alcohol (TBA)	<10	<200	<200	<100	NS	<100	<20	<100	NS
Diisopropyl ether (DIPE)	3.9	<40	<40	<20	NS	<20	<4.0	<20	NS
Tetrachloroethene (PCE)	150	110	94	70	19	65	60	56	19
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	6.9	<20	<20	<10	3	<10	2	<10	3
Trichloroethene (TCE)	1900	1200	950	900	670	700	660	700	670
1,1-Dichloroethane (1,1-DCA)	50	36	27	28	18	18	15	19	18.0
1,2-Dichloroethane (1,2-DCA)	370	170	150	180	69	93	81	74	69.0
1,1-Dichloroethene (1,1-DCE)	21	<20	<20	17	10	10	9	11	10.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	160	200	160	160	180	130	120	160	180
trans-1,2-Dichloroethene (trans 1,2-DCE)	7.6	<20	<20	<10	6.7	<10	4.6	<10	6.7
Vinyl Chloride	1.8	<10	<10	<5.0	1	<5.0	1	<5.0	1
Carbon Tetrachloride	<0.50	<10	<10	<5.0	<0.50	<5.0	<1.0	<5.0	<0.50
Styrene	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,2-Dibromomethane	<1.0	<20	<20	<10	<1.0	<10	<2.0	<10	<1.0
1,2-Dichloropropane (1,2-DCP)	26	22	<20	18	15	11	9	13	15
Other Parameters (mg/L)									
1,4-Dioxane (μg/L)	93	64	40	46	28	37	37	39	28
TPH C6-C44 by EPA Method 8015B (μg/L)									
C6	=	=	=	ND	ND	ND	ND	44.0	ND
C7	=	=	300	310	100	91	67	250	100.0
C8	=	=	86	23	ND	23	11	6	ND
C9-C10	=	=	180	180	ND	28	ND	77	ND
C11-C12	=	=	76	29	ND	86	130	87	ND
C13-C14	=	=	41	27	ND	ND	2.1	ND	ND
C15-C16	=	=	44	31	ND	ND	ND	ND	ND
C17-C18	=	=	68	29	ND	ND	ND	ND	ND
C19-C20	=	=	22	9.8	ND	ND	ND	ND	ND
C21-C22	=	=	14	1.7	ND	ND	ND	ND	ND
C23-C24	=	=	8.1	ND	ND	22	ND	ND	ND
C25-C28	=	=	9.4	ND	ND	2.8	ND	ND	ND
C29-C32	=	=	ND	ND	ND	ND	ND	ND	ND
C33-C36	=	=	ND	ND	ND	ND	ND	ND	ND
C37-C40	=	=	ND	ND	ND	ND	ND	ND	ND
C41-C44	=	=	ND	ND	ND	ND	ND	ND	ND
C6-C44 Total	=	=	850	640	<500	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	0.127	0.23900	0.03	4.09	4.79	0.08	0.0341
Banum	=	=	0.0190	0.01900	0.0220	0.0289	0.0309	0.0203	0.0220
Beryllium	=	=	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmum	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	0.00579	<0.00500
Cobalt	=	=	0.0224	0.0149	0.0059	0.0234	0.0243	0.0085	0.0059
Copper	=	=	0.0457	0.0474	0.0369	0.0726	0.0721	0.0610	0.0369
Lead	=	=	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Molybdenum	=	=	0.0396	0.0472	0.0573	0.0348	0.0346	0.0444	0.0573
Nickel	=	=	0.2910	0.316	<0.0150	0.184	0.154	0.272	<0.0150
Selenium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	<0.005	<0.00500	<0.00500	0.0362	0.0424	<0.00500	<0.00500
Zinc	=	=	0.0632	0.05330	0.022	0.144	0.175	0.028	0.0217
Field Measurements									
pH (Standard units)	7.06	7.04	8.12	7.69	0.00	6.60	6.60	6.61	7.23
Specific Conductance (millisiemens per centimeter)	0.515	0.501	0.472	0.487	0.000	0.510	0.510	0.480	0.538
Oxidation Reduction Potential (ORP) (millivolts)	-65	-55	-65	-107.0	0.0	60.0	60.0	-69.0	-42.0
Dissolved Oxygen (DO) (mg/L)	0.66	1.62	0.18	0.00	0.00	2.54	2.54	1.70	5.90
Temperature (Degrees Celsius)	25.03	20.50	23.92	22.58	0.00	25.30	25.30	21.80	26.22

Notes:

-- Not detected

== Not analyzed

D - Data qualified from a diluted sample

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW-8						
	Date	05/23/06	12/06/06	06/04/07	11/27/07	07/15/08	12/03/08
VOCs by EPA Method 8260 (ug/L)							
Acetone	<10	<10	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	2.0	<1.0	2.1	2.8	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p/m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	NS
Diisopropyl Ether (DPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	<1.0	4.9	5.8	5.9	17.0	16.0	6
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	1.5	9.8	10	7.6	36.0	46.0	7
1,1-Dichloroethane (1,1-DCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (1,2-DCA)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene (1,1-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	<1.0	1.2	2.0	1.5	6.4	12.0	4.4
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)							
1,4-Dioxane (ug/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TPH C6-C44 by EPA Method 8015B (ug/L)							
C6	=	=	=	ND	ND	ND	ND
C7	=	=	3.0	ND	ND	47.0	ND
C8	=	=	2.4	ND	ND	17.0	ND
C9-C10	=	=	21	ND	ND	ND	ND
C11-C12	=	=	41	ND	ND	ND	ND
C13-C14	=	=	12	ND	ND	ND	ND
C15-C16	=	=	17	9.8	ND	ND	1.8
C17-C18	=	=	64	23	36	ND	33
C19-C20	=	=	9.0	ND	4.6	ND	4.4
C21-C22	=	=	8.2	ND	6.0	ND	50.0
C23-C24	=	=	8.1	ND	ND	ND	130.0
C25-C28	=	=	13	ND	ND	ND	290.0
C29-C32	=	=	ND	ND	ND	ND	910.0
C33-C36	=	=	ND	ND	ND	ND	610.0
C37-C40	=	=	ND	ND	ND	ND	580.0
C41-C44	=	=	ND	ND	ND	ND	450.0
C6-C44 Total	=	=	ND	<500	<500	<500	3,100
Metals by EPA Method 6010B/7470A (mg/L)							
Antimony	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	0.205	0.139	0.263	0.445	0.139
Barium	=	=	0.08210	0.08370	0.10600	0.10300	0.525
Beryllium	=	=	<0.001	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	=	0.00101	<0.00500	<0.00500	0.01060	0.01680
Cobalt	=	=	0.03880	<0.00500	<0.00500	<0.00500	<0.00500
Copper	=	=	<0.005	0.00554	<0.00500	<0.00500	0.12500
Lead	=	=	<0.010	<0.0100	<0.0100	0.01410	0.06660
Mercury	=	=	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	0.0421	0.0407	0.0440	0.0414	0.0496
Nickel	=	=	0.00814	<0.00500	<0.00500	0.00517	0.00814
Selenium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	<0.005	<0.00500	<0.00500	<0.00500	0.00713
Zinc	=	=	0.01260	0.01870	<0.0100	0.02470	0.60900
Field Measurements							
pH (Standard units)	7.27	7.34	7.70	7.23	7.30	6.80	7.32
Specific Conductance (millisiemens per centimeter)	0.098	0.105	0.101	0.102	0.110	0.110	0.105
Oxidation Reduction Potential (ORP) (millivolts)	-77	-89	-33.0	-105.0	-94.0	-105.0	-112.0
Dissolved Oxygen (DO) (mg/L)	0.062	1.54	0.33	1.26	0.87	2.30	5.22
Temperature (Degrees Celsius)	26.89	22.6	26.30	23.96	30.90	21.00	28.47

Notes:

-- - Not detected

= - Not analyzed

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW 9								
	Date	5/23/2006 ¹	5/23/2006 ²	5/23/2006 ³	12/06/06	06/05/07	11/27/07	07/14/08	12/02/08
VOCs by EPA Method 8260 (ug/L)									
Acetone	<10	<10	<10	<10	<10	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	16	16	17	43	38	40	41	42	27
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	4.1	4.1	2.9	6.8	6.7	7.2	8.1	8.1	4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p-m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-t-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<10	<10	NS
Diisopropyl ether (DIPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	3.8	3.6	3.2	7.0	5.6	7.0	4.9	5.3	4.1
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	16	17	16	19	15	16	14	15	14
1,1-Dichloroethane (1,1-DCA)	2.0	1.9	<1.0	1.7	1.8	1.4	1.7	1.6	16.0
1,2-Dichloroethane (1,2-DCA)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene (1,1-DCE)	1.2	1.1	1.1	1.2	1.5	1.1	1.1	1.4	1.1
cis-1,2-Dichloroethene (cis 1,2-DCE)	4.9	5.2	5.2	6.6	9.0	8.0	12.0	12.0	14
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)									
1,4-Dioxane (μg/L)	3.0	2.9	3.1	4.8	2.6	2.7	2.8	2.3	2.3
TPH C6-C44 by EPA Method 8015B (ug/L)									
C6	--	--	--	--	--	ND	ND	ND	ND
C7	--	--	--	--	ND	ND	ND	ND	ND
C8	--	--	--	--	ND	ND	ND	ND	ND
C9-C10	--	--	--	--	ND	36	34	ND	ND
C11-C12	--	--	--	--	7.3	1.3	ND	2.8	ND
C13-C14	--	--	--	--	39	ND	ND	ND	ND
C15-C16	--	--	--	--	18	ND	ND	ND	ND
C17-C18	--	--	--	--	14	ND	ND	ND	ND
C19-C20	--	--	--	--	12	ND	ND	ND	ND
C21-C22	--	--	--	--	7.9	ND	ND	ND	ND
C23-C24	--	--	--	--	11	ND	ND	ND	ND
C25-C28	--	--	--	--	10	ND	ND	ND	ND
C29-C32	--	--	--	--	ND	ND	ND	ND	ND
C33-C36	--	--	--	--	ND	ND	ND	ND	ND
C37-C40	--	--	--	--	ND	ND	ND	ND	ND
C41-C44	--	--	--	--	ND	ND	ND	ND	ND
C6-C44 Total	--	--	--	--	ND	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	=	=	<0.10	<0.0100	<0.0100	0.01560	<0.0100
Barium	=	=	=	=	0.0292	0.0293	0.0295	0.0334	0.0386
Beryllium	=	=	=	=	<0.001	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	=	=	=	<0.005	<0.00500	<0.00500	0.00501	<0.00500
Cobalt	=	=	=	=	0.0142	<0.00500	<0.00500	<0.00500	<0.00500
Copper	=	=	=	=	0.0327	0.0339	0.0265	0.0261	0.0221
Lead	=	=	=	=	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	=	=	=	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	=	=	0.0466	0.0476	0.0457	0.0489	0.0557
Nickel	=	=	=	=	0.0732	0.0659	0.0614	0.0589	0.0505
Selenium	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	=	=	0.0148	0.0141	0.0139	0.0147	0.0150
Zinc	=	=	=	=	<0.010	0.0154	0.0505	<0.0100	<0.0100
Field Measurements									
pH (Standard units)	7.34	7.37	7.38	7.43	8.44	7.93	6.90	6.30	7.43
Specific Conductance (millisiemens per centimeter)	0.269	0.266	0.276	0.273	0.266	0.275	0.300	0.260	0.265
Oxidation Reduction Potential (ORP) (millivolts)	103	100	103	-101	-58	-76.0	-54.0	-48.0	-120.0
Dissolved Oxygen (DO) (mg/L)	1.41	3.02	1.41	6.25	3.03	0.00	0.77	1.50	3.89
Temperature (Degrees Celsius)	26.81	28.35	26.81	23.90	21.87	23.22	31.20	21.90	23.15

Notes:

-- Not detected

== Not analyzed

NS - Not sampled

1 - Sampled at a depth of 90 ft

2 - Sampled at a depth of 77 ft

3 - Sampled at a depth of 63 ft

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	MW-10								
	Date	5/23/2006 ¹	5/23/2006 ²	5/23/2006 ³	12/07/06	06/05/07	11/28/07	07/15/08	12/02/08
VOCs by EPA Method 8260 (µg/L)									
Acetone	<10	<10	<10	<50	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,2-Dichlorobenzene (1,2-DCB)	7.0	5.4	5.2	7.9	6.1	6.6	7.9	7.2	5.5
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	2.6	2.3	2.2	3.5	2.2	2.4	<1.0	3.7	4.8
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p/m- and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<10	<10	NS
Diisopropyl ether (DPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)									
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)	25	21	22	25	18	18	18	19	21
1,1-Dichloroethane (1,1-DCA)	2.1	1.8	1.8	1.8	1.4	1.3	1.7	2.5	2.9
1,2-Dichloroethane (1,2-DCA)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene (1,1-DCE)	4.8	4.1	4.0	4.4	4.0	3.8	3.5	4.5	3.6
Cis-1,2-Dichloroethene (cis 1,2-DCE)	71	64	64	57	40	37	44	52	73
trans-1,2-Dichloroethene (trans 1,2-DCE)	3.6	3.2	3.2	3.1	2.1	2.5	<1.0	2.6	3.9
Vinyl Chloride	0.60	0.56	0.61	0.65	0.61	1	1	1	0.71
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)									
1,4-Dioxane (µg/L)	15	15	16	15	8.8	8.9	11	4.8	13
TPH C6-C44 by EPA Method 8015B (µg/L)									
C6	=	=	=	=	=	ND	ND	ND	ND
C7	=	=	=	=	=	ND	ND	ND	ND
C8	=	=	=	=	=	ND	2.2	ND	ND
C9-C10	=	=	=	=	=	8.9	14.0	ND	34.0
C11-C12	=	=	=	=	=	35	6.2	ND	2.8
C13-C14	=	=	=	=	=	14	ND	ND	ND
C15-C16	=	=	=	=	=	14	14.0	2.1	ND
C17-C18	=	=	=	=	=	46	42.0	21.0	15
C19-C20	=	=	=	=	=	9.4	11.0	1.6	ND
C21-C22	=	=	=	=	=	9.1	8.5	ND	ND
C23-C24	=	=	=	=	=	11	7.0	ND	ND
C25-C28	=	=	=	=	=	11	2.5	ND	ND
C29-C32	=	=	=	=	=	ND	ND	ND	ND
C33-C36	=	=	=	=	=	ND	ND	ND	ND
C37-C40	=	=	=	=	=	ND	ND	ND	ND
C41-C44	=	=	=	=	=	15	ND	ND	ND
C6-C44 Total	=	=	=	=	=	ND	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	=	=	<0.010	<0.0100	<0.0100	<0.0100	<0.0100
Barium	=	=	=	=	0.0307	0.0266	0.0294	0.0353	0.0342
Beryllium	=	=	=	=	=	<0.001	<0.00100	<0.00100	<0.00100
Cadmium	=	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500
Chromium	=	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500
Cobalt	=	=	=	=	=	0.01620	<0.00500	<0.00500	<0.00500
Copper	=	=	=	=	=	0.00913	0.00919	0.00595	0.00723
Lead	=	=	=	=	=	<0.010	<0.0100	<0.0100	<0.0100
Mercury	=	=	=	=	=	<0.0005	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	=	=	=	0.0717	0.0717	0.0764	0.0795
Nickel	=	=	=	=	=	0.0612	0.0516	0.0562	0.0562
Selenium	=	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150
Silver	=	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500
Thallium	=	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150
Vanadium	=	=	=	=	=	0.00533	<0.00500	<0.00500	0.00630
Zinc	=	=	=	=	=	0.13600	0.01380	<0.0100	<0.0100
Field Measurements									
pH (Standard units)	7.23	7.26	7.28	7.27	8.43	7.92	7.00	6.83	7.44
Specific Conductance (millisiemens per centimeter)	0.29	0.294	0.276	0.350	0.292	0.298	0.300	0.290	0.301
Oxidation Reduction Potential (ORP) (millivolts)	-80	24.0	118.0	-52.0	-61.0	-66.0	-34.0	-70.0	-48.0
Dissolved Oxygen (DO) (mg/L)	0.92	1.64	4.69	1.32	0.70	0.43	2.20	2.50	6.97
Temperature (Degrees Celsius)	25.71	26.38	27.47	21.1	22.62	20.76	22.10	21.60	25.69

Notes:

--- Not detected

== Not analyzed

1- Sampled at a depth of 93 ft

2- Sampled at a depth of 77 ft

3 - Sampled at a depth of 63 ft

Summary of Groundwater Analytical Results - 1988-2009

Former LA Chemical Facility

Well ID	MW-11								
	Date	5/23/2006 ¹	5/23/2006 ²	5/23/2006 ³	12/07/06	06/05/07	11/28/07	07/15/08	12/02/08
VOCs by EPA Method 8260 (µg/L)									
Acetone	<10	<10	<10	<50	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.4	1.1
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p- <i>m</i> - and <i>o</i> -xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<10	<10	NS
Diisopropyl ether (Dipe)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	<1.0	1.1	<1.0	3.2	2.1	3.7	3.5	3.7	2.1
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	37	44	45	60	43	46	45	40	48
1,1-Dichloroethane (1,1-DCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
1,2-Dichloroethane (1,2-DCA)	2.1	2.2	2.4	1.8	1.3	1.9	2.3	2.1	4.0
1,1-Dichloroethene (1,1-DCE)	1.3	1.3	1.7	2.0	1.9	1.5	1.1	<1.0	1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	4.8	5.3	5.3	5.0	4.0	3.6	3.6	3.0	3.5
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Other Parameters (mg/L)									
1,4-Dioxane (µg/L)	<2.0	<2.0	<2.0	2.3	<2.0	2.2	2.5	2.2	3.4
TPH C6-C44 by EPA Method 8015B (µg/L)									
C6	=	=	=	=	0.0	ND	ND	ND	ND
C7	=	=	=	=	8.6	13	ND	ND	ND
C8	=	=	=	=	ND	2.9	ND	ND	ND
C9-C10	=	=	=	=	8.7	ND	ND	ND	ND
C11-C12	=	=	=	=	43	ND	ND	ND	ND
C13-C14	=	=	=	=	18	11	ND	ND	ND
C15-C16	=	=	=	=	16	15	ND	ND	ND
C17-C18	=	=	=	=	44	55	ND	ND	ND
C19-C20	=	=	=	=	9.3	16	ND	ND	ND
C21-C22	=	=	=	=	9.6	17	ND	ND	ND
C23-C24	=	=	=	=	11	0.10	ND	ND	ND
C25-C28	=	=	=	=	14	ND	ND	ND	ND
C29-C32	=	=	=	=	ND	ND	ND	ND	ND
C33-C36	=	=	=	=	ND	ND	ND	ND	ND
C37-C40	=	=	=	=	ND	ND	ND	ND	ND
C41-C44	=	=	=	=	ND	ND	ND	ND	ND
C6-C44 Total	=	=	=	=	ND	<500	<500	<500	<500
Metals by EPA Method 6010B/7470A (mg/L)									
Antimony	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	=	=	<0.010	0.0185	0.0143	0.0176	0.0725
Barium	=	=	=	=	0.0163	0.0327	0.0577	0.1900	1.1000
Beryllium	=	=	=	=	<0.001	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	=	=	0.0344	0.0243	0.0241	0.0403	0.2850
Chromium	=	=	=	=	0.0283	0.0253	0.0246	0.0749	0.1070
Cobalt	=	=	=	=	0.1140	0.0942	0.0732	0.0690	0.0655
Copper	=	=	=	=	0.777	0.755	0.552	0.584	1.450
Lead	=	=	=	=	0.01120	<0.0100	<0.0100	0.04280	0.41300
Mercury	=	=	=	=	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	=	=	0.00875	0.00153	0.00761	<0.00500	<0.00500
Nickel	=	=	=	=	0.463	0.464	0.402	0.399	0.464
Selenium	=	=	=	=	<0.015	<0.0150	<0.0150	0.01810	0.15000
Silver	=	=	=	=	<0.005	<0.00500	<0.00500	<0.00500	0.01450
Thallium	=	=	=	=	<0.015	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	=	=	0.0200	0.0340	0.0517	0.1080	0.4460
Zinc	=	=	=	=	0.0403	0.0686	0.0791	0.0659	0.8130
Field Measurements									
pH (Standard units)	7.00	7.06	7.14	7.07	8.46	7.83	7.10	6.97	7.40
Specific Conductance (millisiemens per centimeter)	0.72	0.762	0.783	0.840	0.776	0.800	0.850	0.780	0.780
Oxidation Reduction Potential (ORP) (millivolts)	90	133	132	155.0	110.0	120.0	105.0	83.0	102.0
Dissolved Oxygen (DO) (mg/L)	1.77	5.41	28.29	2.72	4.74	0.30	6.51	5.00	6.69
Temperature (Degrees Celsius)	24.57	26.11	29.26	18.80	21.25	17.93	29.20	22.10	22.72

Notes:

-- Not detected

== Not analyzed

1 - sampled at a depth of 87 ft

2 - sampled at a depth of 77 ft

3 - sampled at a depth of 67 ft

Summary of Groundwater Analytical Results - 1988-2009
Former LA Chemical Facility

Well ID	Date	MW-12									
		5/23/2006 ¹	05/23/06	12/06/06	06/05/07	06/05/07 Dup	11/27/07	11/27/07 Dup	07/15/08	12/02/08	06/16/09
VOCs by EPA Method 8260 (ug/L)											
Acetone	<10	<10	<10	<50	<10	<50	<50	<50	<50	<50	<50
2-Butanone (methyl ethyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone (methyl butyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (methyl isobutyl ketone)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene (1,2-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene (1,3-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene (1,4-DCB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (1,2,4-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (1,3,5-TMB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
s-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
t-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes (p/m and o-xylene)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-Butyl Alcohol (TBA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NS
Diisopropry ether (DIPE)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane (1,1,1-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane (1,1,2-TCA)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	1.4	1.3	1.6	1.3	1.4	1.6	1.4	1.6	1.3	1.6	<1.0
1,1-Dichloroethane (1,1-DCA)	14	14	19	15	15	11	10	9	8	5.7	
1,2-Dichloroethane (1,2-DCA)	<0.50	<0.50	0.54	0.56	0.55	0.53	0.62	<0.50	<0.50	0.5	
1,1-Dichloroethene (1,1-DCE)	18	17	19	18	18	15	15	16	17	13	
cis-1,2-Dichloroethene (cis 1,2-DCE)	4.1	4.0	6.6	7.2	7.2	8.2	8.4	11.0	9.9	7.0	
trans-1,2-Dichloroethene (trans 1,2-DCE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vinyl Chloride	1.1	1.3	1.2	1.1	1.1	1.0	0.84	1.00	1.20	0.9	
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane (1,2-DCP)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Other Parameters (mg/L)		44	44	82	110	120	170	170	260	260	97
TPH C6-C44 by EPA Method 8015B (ug/L)											
C6	=	=	=	0.0	0.0	ND	ND	ND	ND	ND	
C7	=	=	=	ND	ND	10	10	ND	10	ND	
C8	=	=	=	ND	ND	3.7	4.9	ND	4.0	ND	
C9-C10	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C11-C12	=	=	=	ND	ND	ND	ND	ND	ND	ND	
C13-C14	=	=	=	ND	ND	ND	ND	ND	ND	15.0	ND
C15-C16	=	=	=	ND	ND	ND	ND	ND	ND	19.0	ND
C17-C18	=	=	=	ND	ND	ND	ND	ND	ND	19.0	ND
C19-C20	=	=	=	ND	ND	ND	ND	ND	ND	7.6	ND
C21-C22	=	=	=	ND	ND	ND	ND	ND	ND	6.8	ND
C23-C24	=	=	=	ND	ND	3.6	ND	ND	ND	6.8	ND
C25-C28	=	=	=	ND	ND	ND	ND	ND	ND	6.4	ND
C29-C32	=	=	=	ND	ND	ND	ND	ND	ND	ND	ND
C33-C36	=	=	=	ND	ND	ND	ND	ND	ND	ND	ND
C37-C40	=	=	=	ND	ND	ND	ND	ND	ND	ND	ND
C41-C44	=	=	=	ND	ND	ND	ND	ND	ND	ND	ND
C6-C44 Total	=	=	=	ND	ND	<500	<500	<500	<500	<500	
Metals by EPA Method 6010B/7470A (mg/L)											
Antimony	=	=	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	=	=	=	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	0.01380	<0.0100
Barium	=	=	=	0.08830	0.07100	0.07670	0.07620	0.12000	0.10800	0.117	
Beryllium	=	=	=	<0.001	<0.001	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	=	=	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chromium	=	=	=	0.00962	0.01030	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00615
Cobalt	=	=	=	0.02020	0.03010	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Copper	=	=	=	0.05820	<0.0005	<0.00500	<0.00500	<0.00500	<0.00500	0.00723	<0.00500
Lead	=	=	=	<0.010	<0.010	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	=	=	=	<0.0005	<0.0005	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	=	=	=	0.0644	0.0627	0.0612	0.0621	0.0611	0.0633	0.0634	
Nickel	=	=	=	0.0567	0.0557	0.0620	0.0615	0.0748	0.0824	0.0692	
Selenium	=	=	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	=	=	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	=	=	=	<0.015	<0.015	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	=	=	=	<0.005	<0.005	<0.00500	<0.00500	<0.00500	0.00516	<0.00500	<0.00500
Zinc	=	=	=	0.0215	0.0285	0.0222	0.0220	0.0171	0.0109	<0.0100	
Field Measurements											
pH (Standard units)	7.18	7.18	7.27	8.26	8.26	7.66	7.66	7.30	6.76	7.35	
Specific Conductance (millisiemens per centimeter)	0.254	0.254	0.295	0.274	0.274	0.299	0.299	0.300	0.290	0.319	
Oxidation Reduction Potential (ORP) (millivolts)	-119.0	-119.0	-109.0	-100.0	-100.0	-126.0	-126.0	-59.0	-107.0	-89.0	
Dissolved Oxygen (DO) (mg/L)	4.41	4.41	1.07	5.69	5.69	0.00	0.00	2.32	2.70	5.27	
Temperature (Degrees Celsius)	22.40	22.40	23.00	20.73	20.73	23.01	23.01	25.20	20.90	25.52	

Notes:

-- Not detected

== Not analyzed

D - Data qualified from a diluted sample

1 - Duplicate Sample

Appendix E

Comparative Analysis
between HydraSleeveTM
and Low-Flow
Groundwater Analytical
Results

1.0 Introduction

This Appendix provides a summary of HydraSleeve™ sampling activities conducted during the First 2009 Semi-Annual groundwater monitoring event (June 2009) at the Brenntag South Gate Site (site) located at 4545 Ardine Street South Gate, California, and also compares low-flow and HydraSleeve™ sampling analytical results.

2.0 HydraSleeve™ Sampling Rationale

HydraSleeve™ samplers are used to collect groundwater samples for most physical and chemical parameters without purging the monitoring well. The HydraSleeve™ collects a groundwater sample from a user-defined interval within the monitoring well (typically the midpoint of the screened [or otherwise open] interval). The sampler is lowered into the screened interval of the well and a period of time is allocated for the well to re-equilibrate following sampler deployment. The HydraSleeve™ collects a groundwater sample by mechanically obtaining a “core” of the water column following activation by raising the sampler slightly in the groundwater column. Once the sampler is full, the one-way reed valve at the top of the HydraSleeve™ collapses; this feature minimizes the entry of extraneous groundwater from more shallow portions of the water column during HydraSleeve™ retrieval from the monitoring well. It should be noted that HydraSleeve™ and low-flow sampling methodologies are both viable groundwater sampling methodologies, that are based on the principle that groundwater is continuously flushing the open interval of a monitoring well. The purpose of this comparative analysis is to evaluate the viability of using HydraSleeve™ sampling as an alternative to low-flow sampling.

3.0 HydraSleeve™ Sampling Procedures

In accordance with the scope of work outlined in email correspondence and meetings with the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), HydraSleeve™ samplers were deployed in six site monitoring wells on June 2, 2009. These test wells included three monitoring wells screened in the shallow groundwater zone (MW-1, MW6S, and MW-12) and three wells screened in the deep groundwater zone (MW-5D, MW-6D, and MW-7D) at the site. Prior to deploying the HydraSleeves™, depth to water and total depth data were collected from each well using an electronic water-level meter. At wells MW-1, MW-5D, MW-6D, and MW-7D, it was determined that the screen intervals were completely submerged and 2.0 Liter (L) HydraSleeves™ (approximately 30 inches in length) were subsequently deployed at the mid-point of the screened interval. The static water levels at wells MW-6S and MW-12 were determined to be within the screen intervals, and 2.0 L HydraSleeves™ were deployed at the mid-point of the saturated portion of the screen. The samplers were deployed at a depth approximately 15 inches below the selected sampling interval (either

the mid-point of the saturated portion of the screen or the mid-point of the screen) so that during sample collection and sampler retrieval, the mid-point of the sampler was located at the proper sampling interval. Table E-1 summarizes June 2009 HydraSleeve™ sampling depths. HydraSleeve™ samplers remained suspended in the wells 13 days prior to sample collection procedures, to allow the wells to return to equilibrium following sampler deployment.

HydraSleeve™ groundwater samples were collected from the six test wells on June 15, 2009. Following retrieval of the HydraSleeve™ sampler at each well, the turbidity of the sample was measured and recorded using a field calibrated LaMotte 2020 turbidity meter. Turbidity measurements from each well are recorded on Tables E2 and E3. Following turbidity readings, the collected groundwater was placed in laboratory-supplied containers for the following analyses:

- Volatile Organic Compounds (VOCs) via United States Environmental Protection Agency (EPA) Method 8260B
- 1,4-dioxane via EPA Method 8270C
- Title 22 California Assessment Manuel (CAM) Metals via EPA Method 6010B/7000
- Total petroleum hydrocarbons - carbon chain speciation (TPH-cc) via EPA Method 8015B (M).

Following sample collection, the sample containers were labeled and recorded on a chain of custody document, placed in an ice-filled cooler and shipped to Calscience Environmental Laboratories, Inc. (Calscience), a State-certified analytical laboratory located in Garden Grove, for analysis. For the six test wells in which HydraSleeve™ samples were collected, the monitoring wells were allowed a minimum of 24 hours of equilibration time between the completion of HydraSleeve™ sample collection procedures and the initiation of low-flow sampling procedures. Additionally, during low-flow sampling, purge-water turbidity was measured immediately after field parameter stabilization, and prior to low-flow sample collection, using the same field-calibrated LaMotte 2020 meter, and recorded on the field logs. Beyond the field measurement of turbidity using a LaMotte 2020 turbidity meter, low-flow sampling procedures were consistent with the site-specific *Sampling and Analysis Plan* and with previous monitoring events. A full description of the low-flow sampling protocols and procedures is provided in Section 1.2 of this report.

4.0 Results

Side-by-side analytical results for groundwater samples collected via low-flow and HydraSleeve™ sampling methods are summarized in Tables E2 and E3. In addition,

Figures E1 through E5 present X-Y scatter plots with linear regression calculations for low-flow analytical versus HydraSleeve™ analytical results for VOCs, 1,4-dioxane, metals, turbidity, and TPH-CC, respectively. Also, Table E4 summarizes the results in terms of regulatory status (in relation to drinking water maximum contaminant levels [MCLs] as published in Title 22 of the California Code of Regulations [CCR]).

4.1 VOCs Analytical Comparative Analysis

Table E-2 and Figure E-1 compare the HydraSleeve™ VOC analytical data to the low-flow sampling VOC analytical data. Regression calculations performed on the X-Y scatter plot shown on Figure E-1 indicate a coefficient of determination (R^2) value of 0.9813, indicating a strong correlation between the two data sets. The low-flow VOC sample concentrations were slightly less than HydraSleeve™ VOC sample concentrations, as indicated by the line slope of 0.84, which is less than 1. A line slope greater than 1 would have indicated that the low-flow sampling VOC concentrations were generally higher than the HydraSleeve™ VOC concentrations. As summarized on Table E-4, HydraSleeve™ sampling results were also compared with low-flow analytical data in terms of the regulatory status of key constituents of concern (COCs) at the six test wells. For the various pairs of VOC data at the test wells, 95% of the data pairs (57 out of 60), indicated either: 1) the same regulatory conclusion for both methods; 2) or a slight analyte MCL exceedance in the HydraSleeve™ sample that was not reported in the low-flow sample.

These results show that HydraSleeve™ sampling results for VOCs were very similar to low-flow sampling results, and support the proposed use of HydraSleeve™ samplers for future routine sampling of VOCs in groundwater at the site.

4.2 1,4-Dioxane Comparative Analysis

Table E-2 and Figure E-2 compare the 1,4-dioxane analytical data collected using HydraSleeve™ and low-flow sampling methods. The 1,4-dioxane data linear regression has an R^2 value of 0.998, again indicating a strong correlation between the two data sets. The slope of 0.69 indicates that HydraSleeve™ 1,4-dioxane concentrations were generally slightly greater than low-flow method 1,4-dioxane concentrations. In addition, as indicated on Table E-4, all six test wells indicated the same conclusion regarding regulatory status with respect to the State of California action level (AL) for 1,4-dioxane using either HydraSleeve™ or low-flow sampling methods.

These results show that HydraSleeve™ sampling results for 1,4-dioxane were very similar to the low-flow sampling results, and these data support the proposed use of HydraSleeve™ samplers for future routine sampling of 1,4-dioxane in groundwater at the site.

4.3 Metals Comparative Analysis

Table E-3 and Figure E-3 compare metals concentrations in HydraSleeve™ and low-flow collected groundwater samples. Regression calculations performed on the X-Y scatter plot on Figure E-3 indicates an R^2 value of 0.83. The line slope of 0.87 again indicates that HydraSleeve™ metals concentrations were generally higher than low-flow sampling metals concentrations. The slightly higher metals concentrations in the HydraSleeve™ samples may be related to slightly higher turbidity levels identified in the HydraSleeve™ groundwater samples. Because metals are sorptive, higher concentrations in groundwater would be expected in groundwater samples exhibiting greater turbidity levels. Figure E-4 depicts an X-Y scatter plot of turbidity data collected from HydraSleeve™ samples and low-flow samples. The turbidity data linear regression has an R^2 value of 0.81. The line slope of 0.13 indicates that turbidity was generally higher in the HydraSleeve™ samples. It is important to note, however, that HydraSleeve™ sample turbidity was still relatively low- less than, or equal to, 31 nephelometric turbidity units (NTU) in 5 of the 6 groundwater samples. Finally, as shown on Table E-4, HydraSleeve™ sampling results were equal to, or more conservative than, (with respect to analyte MCLs) for five key metals (arsenic, cadmium, chromium, lead, and nickel) for 96.7% of the comparative data pairs (29 instances out of 30). These data support the conclusion that HydraSleeve™ sampling is an appropriate and conservative alternative for routine sampling of metals in groundwater at the site.

4.4 TPH-CC Comparative Analysis

Table E-2 and Figure E-5 TPH-CC compare the analytical data collected via HydraSleeve™ and low-flow sampling methods. Regression calculations performed on the X-Y scatter plot on Figure E-5 indicate an R^2 value of 0.75. The line slope value of 0.40 indicates that HydraSleeve™ TPH-CC sample concentrations were generally higher than low-flow sampling TPH-CC sample concentrations. The slightly higher TPH-CC concentrations in the HydraSleeve™ samples may be attributed to the slightly higher turbidity values for the HydraSleeve™ samples. These data support the interpretation that HydraSleeve™ sampling is an appropriate and conservative alternative for routine sampling of TPH-CC in groundwater at the site.

5.0 Request for Formal Approval to Switch to HydraSleeve™ Sampling Methodologies

Based on the analytical results from the comparative sampling event discussed above, routine groundwater sampling utilizing HydraSleeve™ samplers has been determined to produce groundwater analytical data that were similar to, or more conservative than, the analytical data obtained following low-flow sampling procedures. Of the 96 pairs of data obtained during the first semi-annual 2009 groundwater monitoring event at the site

using both sampling methods, the analytical results reached the same conclusion with respect to analyte MCLs or ALs for 85% of the applicable data pairs. The HydraSleeve™ collected groundwater sampling results were more conservative, i.e., indicating an analyte concentration above the MCL or AL that was not reported in the low-flow sample, for 10% of the groundwater samples. Only 4% of the 96 data pairs indicated that low-flow sampling methods produced analytical results that were more conservative than HydraSleeve™ sampling methods.

Based on the results of the comparative study, ARCADIS, on behalf of Brenntag, is requesting that the DTSC formally approve the use of HydraSleeve™ samplers as a groundwater sampling method for routine (currently semi-annual) groundwater monitoring events at the site.

ARCADIS

Tables

Table E1. Hydrasleeve Sampling Information - June 2009
Brenntag Pacific, South Gate, California

Well ID	Off-Site/ On-Site	Water Bearing Zone	Casing Diameter (inches)	Total Depth of well (feet bgs)	Screen Interval (feet bgs)	Well Screen Construction	Depth to Water (June 2, 2009)	Screen Completely Submerged?	Hydrasleeve Sampling Depth (feet bgs)	Hydrasleeve Deployment Depth (feet bgs)
MW-1	On-Site	Shallow	4	75.0	65 to 75	PVC	58.3	yes	70	68.75
MW-5D	Off-Site	Deep	4	93.0	83 to 93	PVC	57.38	yes	88	86.75
MW-6S	On-Site	Shallow	4	70.0	51 to 71	PVC	58.26	no	64.15*	59.9
MW-6D	On-Site	Deep	4	91.0	81 to 91	PVC	58.3	yes	86	84.75
MW-7D	On-Site	Deep	4	96.0	86 to 96	PVC	59.85	yes	91	89.75
MW-12	On-Site	Shallow	4	75.0	40 to 75	PVC	59.67	no	67.4*	66.15

Notes:

bgs below ground surface

NA Not available

PVC Polyvinyl chloride

70.5* = determined in the field. As per the DTSC-approved SAP, for water table wells where the screen is exposed, samples will be collected mid-point of the water column

Table E2. Side-by-Side Summary of First 2009 Semi-Annual Lowflow Sampling vs. HydraSleeve™ Sampler Groundwater Analytical Results (VOCs and 1,4-Dioxane) Brenntag - South Gate, California

Table E2. Side-by-Side Summary of First 2009 Semi-Annual Lowflow Sampling vs. HydraSleeve™ Sampler Groundwater Analytical Results (VOCs and 1,4-Dioxane)
Brenntag - South Gate, California

Well ID	California	MW-1	MW-1 (H)	MW-5D	MW-5D (H)	MW-6S	MW-6S (H)	MW-6D	MW-6D (H)	MW-7D	MW-7D (H)	MW-12	MW-12 (H)	
n-Propylbenzene	--	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Styrene	100	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,1,2-Tetrachloroethane	--	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane	1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethylene (PCE)	5.0	<2.0	1.8	<1.0	<1.0	29	53	<1.0	<1.0	19	34	<1.0	<1.0	
Toluene	150	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,3-Trichlorobenzene	--	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2,4-Trichlorobenzene	5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,1-Trichloroethane	200	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	1,200	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
1,1,2-Trichloroethane	--	<2.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	2.8	3.1	<1.0	<1.0	
Trichloroethylene (TCE)	5.0	11	13	<1.0	<1.0	220	230	<1.0	2.8	670	870	<1.0	1.1	
Trichlorofluoromethane	150	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
1,2,3-Trichloropropane	--	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene	--	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,3,5-Trimethylbenzene	--	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vinyl Acetate	--	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Vinyl Chloride	0.5	<1.0	0.64	0.68	<0.50	<0.50	<0.50	0.84	0.84	0.81	0.71	0.92	0.84	
p/m-Xylene	1750	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
o-Xylene	1750	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methyl-t-Butyl Ether (MTBE)	13	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tert-Butyl Alcohol (TBA)	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Diisopropyl Ether (DIPE)	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Ethyl-t-Butyl Ether (ETBE)	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Tert-Amyl-Methyl Ether (TAME)	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Ethanol	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Other Parameters														
1,4-Dioxane (ug/L)	3	3.4	3.2	21	25	4.4	6.1	<2.0	2.9	28	37	97	140	
Turbidity (ntu)	--	20.3	150	0.66	0.05	12.3	30	1.8	22	1.99	3.4	3.3	31	

Notes:

VOCs Volatile Organic Compounds
 mg/L Milligrams per liter
 µg/L Micrograms per liter
 D Duplicate Sample
 <1.0 Not detected above reporting limit indicated
 ntu Nephelometric turbidity unit

MCLs Maximum Containment Levels
 (H) Groundwater sample collected using HydraSleeve™ sampler

Table E3. Side-by-Side Summary of First 2009 Semi-Annual Lowflow Sampling vs. HydraSleeve™ Sampler Groundwater Analytical Results (Metals and TPH-CC)
Brenntag - South Gate, California

Well ID	California MCLs Date Sampled (mg/L)	MW-1 6/17/2009	MW-1 (H) 6/15/2009	MW-5D 6/16/2009	MW-5D(H) 6/15/2009	MW-6S 6/17/2009	MW-6S (H) 6/15/2009	MW-6D 6/16/2009	MW-6D (H) 6/15/2009	MW-7D 6/17/2009	MW-7D (H) 6/15/2009	MW-12 6/16/2009	MW-12(H) 6/15/2009
Metals by EPA 6010/7000 (mg/L)													
Antimony	0.006	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	0.05	1.29	0.919	0.0119	<0.0100	2.47	2.47	0.0110	0.0596	0.0341	0.723	<0.0100	<0.0100
Barium	1	0.426	0.226	0.0755	0.0127	0.152	0.263	0.0667	0.523	0.0220	0.0248	0.117	0.172
Beryllium	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Cadmium	0.005	<0.00500	0.00555	<0.00500	<0.00500	0.00909	0.0138	<0.00500	0.0107	<0.00500	<0.00500	<0.00500	0.00614
Chromium	0.05	0.0210	0.0506	0.00736	<0.00500	0.0532	0.0483	0.00662	0.0415	<0.00500	<0.00500	0.00615	<0.00500
Cobalt	--	0.00555	0.00889	<0.00500	<0.00500	0.0345	0.0245	<0.00500	<0.00500	0.00591	0.00976	<0.00500	<0.00500
Copper	1.3	0.0974	0.435	<0.00500	<0.00500	0.351	0.272	0.00603	0.140	0.0369	0.232	<0.00500	<0.00500
Lead	0.015	0.0299	0.0517	<0.0100	<0.0100	0.0316	0.0307	<0.0100	0.0420	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	0.002	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.00122	<0.000500	<0.000500
Molybdenum	--	0.0351	0.0370	0.0526	0.00762	0.0414	0.0374	0.0434	0.0386	0.0573	0.0480	0.0634	0.0658
Nickel	0.1	0.265	0.232	<0.00500	<0.00500	0.709	0.457	0.00725	0.0288	<0.0150	0.249	0.0692	0.0759
Selenium	0.05	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	--	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	0.002	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	--	0.0081	0.0203	<0.00500	<0.00500	0.0650	0.0236	<0.00500	0.00861	<0.00500	0.00826	<0.00500	<0.00500
Zinc	--	0.578	0.960	<0.0100	<0.0100	0.655	0.999	0.0340	0.576	0.0217	0.0502	<0.0100	0.0150
TPH C6-C44 by EPA Method 8015M (µg/L)													
C6	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C7	--	ND	ND	ND	ND	31	41	ND	ND	100	150	ND	ND
C8	--	ND	7.7	ND	ND	6.7	16	ND	ND	ND	8.5	ND	ND
C9-C10	--	ND	18	ND	ND	ND	31	ND	ND	ND	ND	ND	ND
C11-C12	--	ND	ND	ND	ND	14	28	ND	ND	ND	86	ND	ND
C13-C14	--	ND	21	ND	ND	41	77	ND	ND	ND	ND	ND	ND
C15-C16	--	ND	13	64	59	41	64	ND	ND	ND	ND	ND	ND
C17-C18	--	ND	27	16	15	87	170	ND	ND	ND	ND	ND	ND
C19-C20	--	ND	18	ND	ND	190	150	ND	ND	ND	ND	ND	ND
C21-C22	--	ND	ND	ND	ND	67	140	ND	ND	ND	ND	ND	ND
C23-C24	--	ND	73	ND	ND	4	120	ND	ND	ND	ND	ND	ND
C25-C28	--	ND	120	ND	ND	26	170	ND	ND	ND	ND	ND	ND
C29-C32	--	ND	150	ND	ND	ND	140	ND	ND	ND	ND	ND	ND
C33-C36	--	ND	150	ND	ND	ND	46	ND	ND	ND	ND	ND	ND
C37-C40	--	ND	63	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND
C41-C44	--	ND	180	ND	ND	ND	94	ND	ND	ND	ND	ND	ND
C6-C44 Total	--	<500	850	<500	<500	507	1,300	<500	<500	<500	<500	<500	<500
Other Parameters													
Turbidity (NTU)	--	20.3	150	0.66	0.05	12.3	30	1.8	22	1.99	3.4	3.3	31

Notes:

TPH Total Petroleum Hydrocarbons

mg/L Milligrams per liter

µg/L Micrograms per liter

D Duplicate Sample

<1.0 Not detected above reporting limit indicated

MCLs Maximum Contaminant Levels

(H) Groundwater sample collected using HydraSleeve™ sampler

Table E4. Comparision of HydraSleeve and LowFlow Analytical in Relation to California Maximum Contaminant Levels (MCLs)
Brenntag - South Gate, California

Constituents of Concern	HS and LF > MCL	HS and LF < MCL	HS > MCL and LF < MCL	HS < MCL and LF > MCL
Volatile Organic Compounds (US EPA 8260B)				
Benzene	2	4	0	0
1,1-Dichloroethane	2	4	0	0
1,2-Dichloroethane	3	0	1	2
1,1-Dichloroethene	2	4	0	0
c-1,2-Dichloroethene	6	0	0	0
t-1,2-Dichloroethene	0	6	0	0
1,2-Dichloropropane	2	4	0	0
Tetrachloroethylene (PCE)	2	4	0	0
Trichloroethylene (TCE)	3	3	0	0
Vinyl Chloride	3	1	1	1
Subtotal (VOCs - 60 Instances)	25	30	2	3
Semi-Volatile Organic Compounds (US EPA 8270C)				
1,4-Dioxane	5	1	0	0
Metals (US EPA 6010B)				
Arsenic	2	2	2	0
Cadmium	1	2	3	0
Chromium	0	4	1	1
Lead	2	3	1	0
Nickel	2	3	1	0
Subtotal (Metals - 30 Instances)	7	14	8	1
Totals (96 Instances)	37	45	10	4

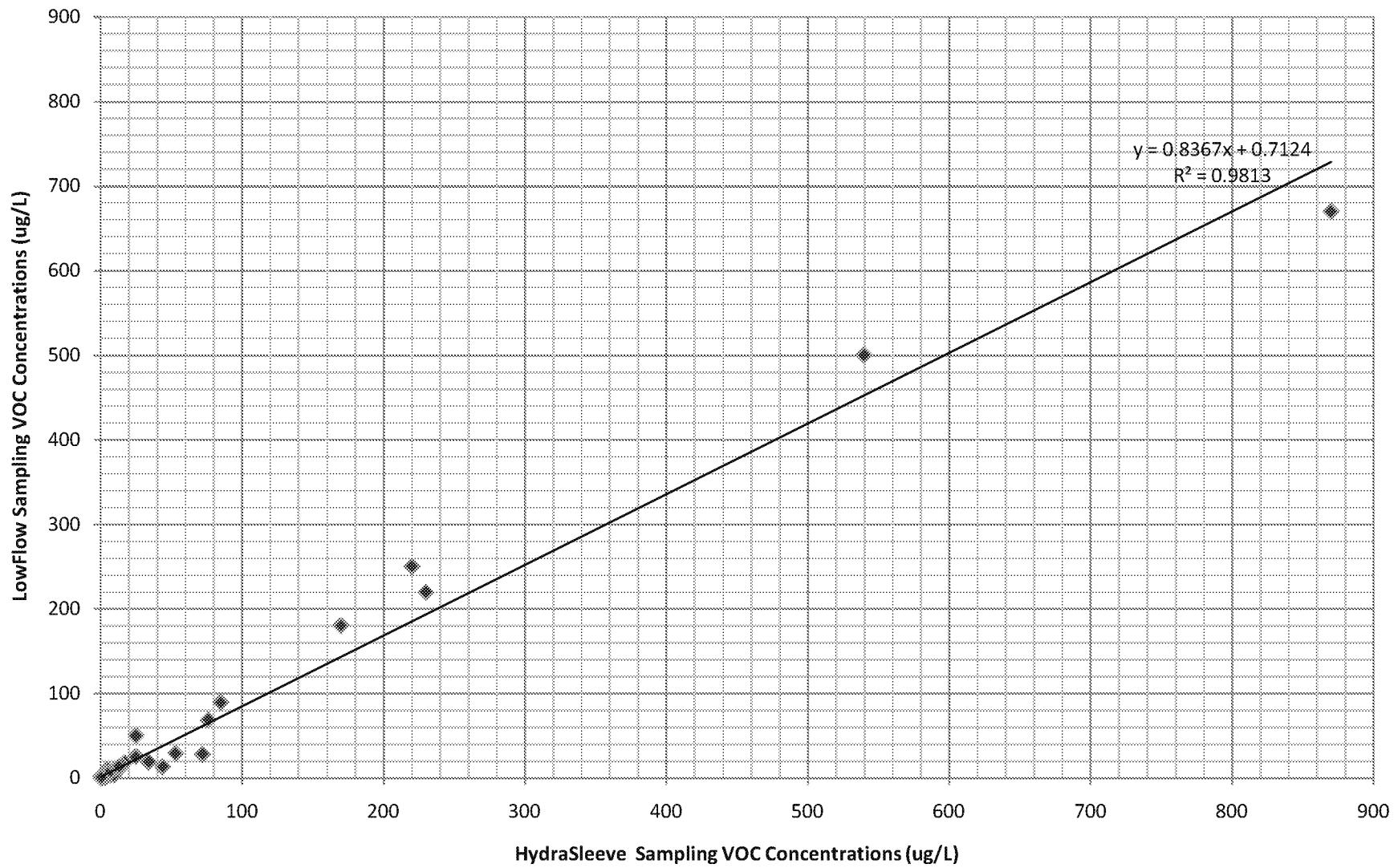
Notes:

- HS and LF > MCL = HydraSleeve and LowFlow Analytical are both greater than MCLs
- HS and LF < MCL = HydraSleeve and LowFlow Analytical are both less than MCLs
- HS > MCL and LF < MCL =HydraSleeve Analytical is greater than MCLs and LowFlow Analytical is less than MCLs
- HS < MCL and LF > MCL =HydraSleeve Analytical is less than MCLs and LowFlow Analytical is greater than MCLs

ARCADIS

Figures

Figure E1 - VOC X-Y Scatter Plot LowFlow Analytical vs. HydraSleeve Analytical



**Figure E2 - 1,4-Dioxane X-Y Scatter Plot LowFlow Analytical vs.
HydraSleeve Analytical**

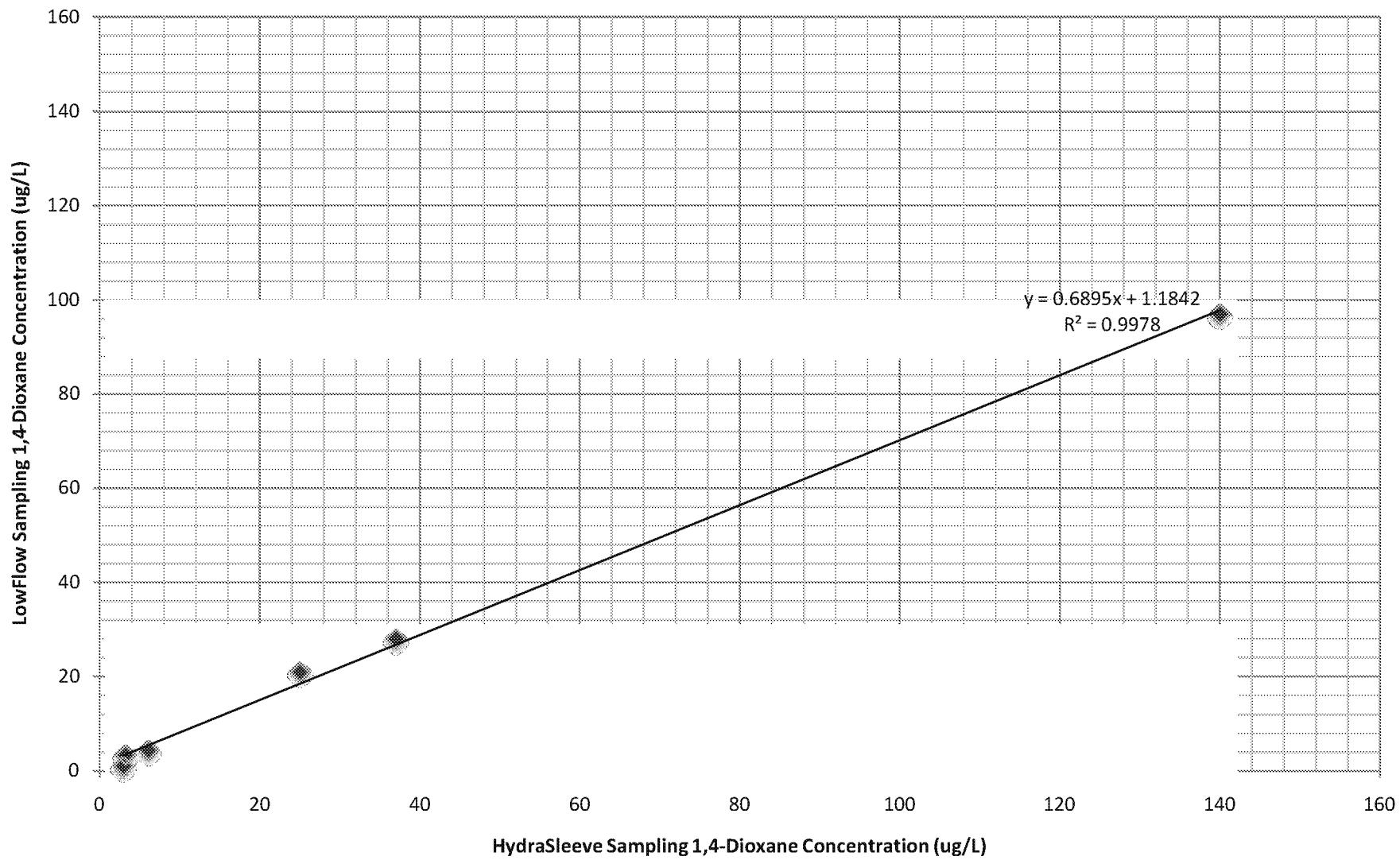


Figure E3 - Metals X-Y Scatter Plot LowFlow Analytical vs. HydraSleeve Analytical

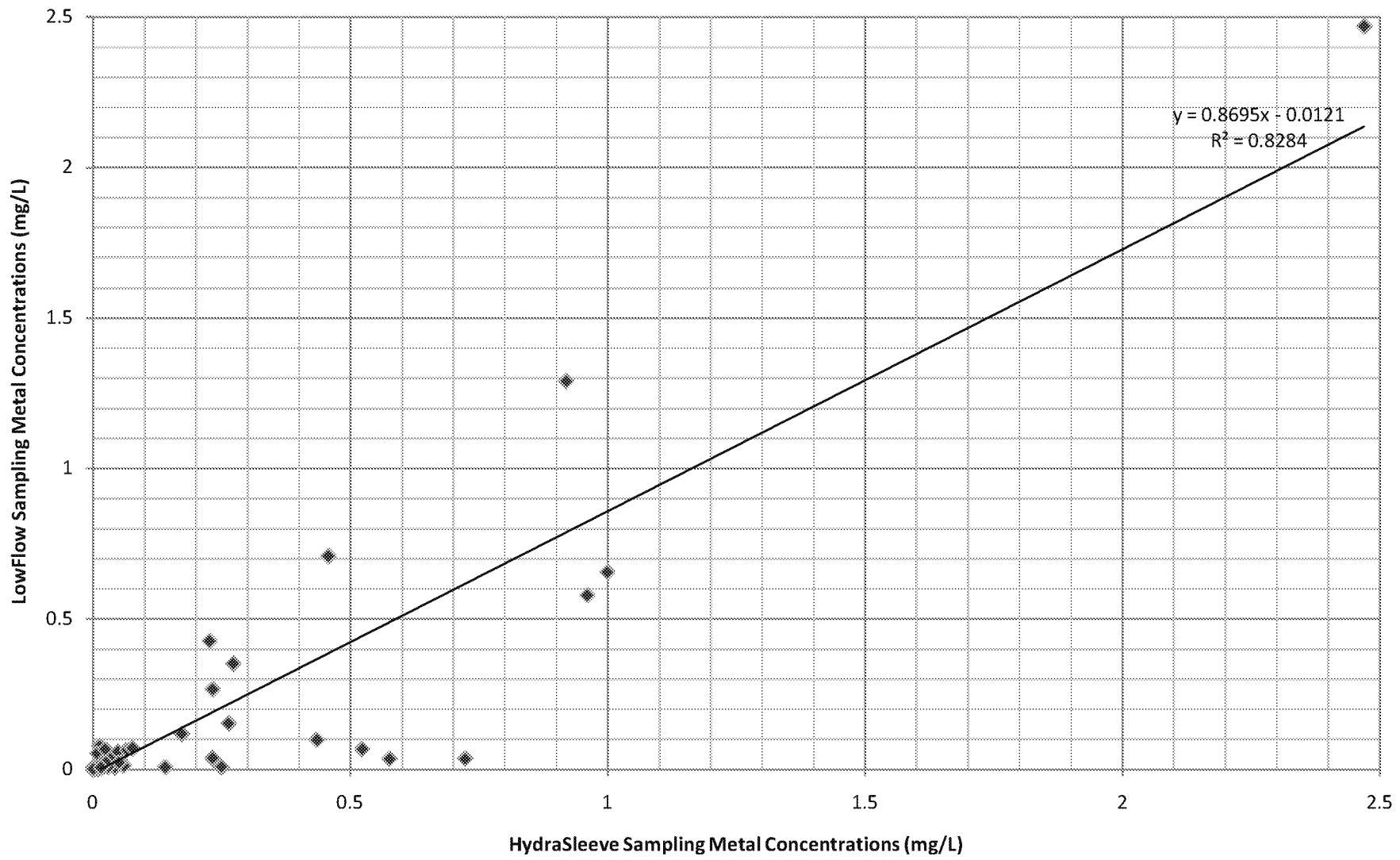


Figure E4 - Turbidity X-Y Scatter Plot LowFlow Analytical vs. HydraSleeve Analytical

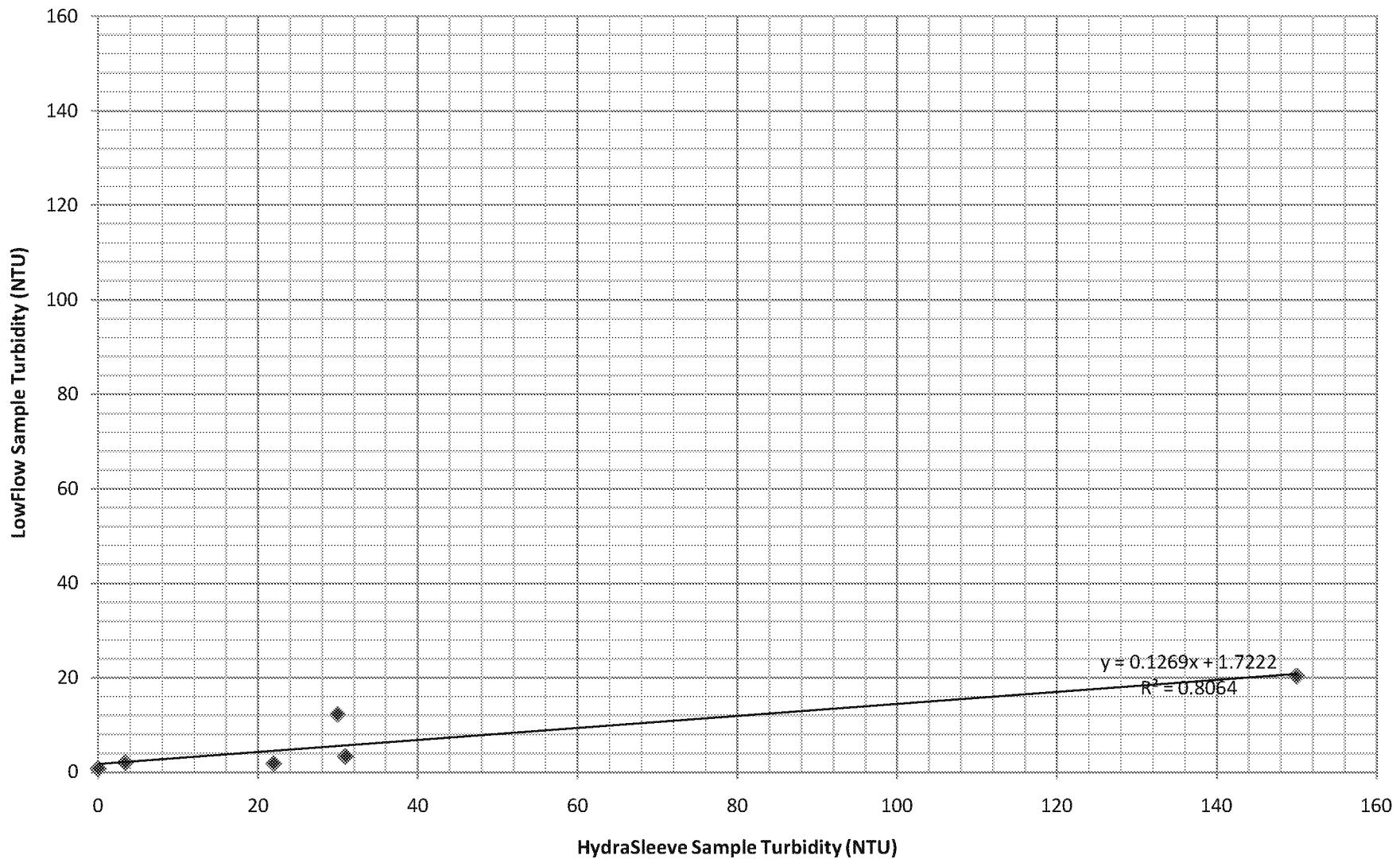


Figure E5 - TPH-CC X-Y Scatter Plot LowFlow Analytical vs. HydraSleeve Analytical

